

Historic, archived document

Do not assume content reflects current
scientific knowledge, policies, or practices.



United States
Department of
Agriculture

Agricultural
Research
Service

Miscellaneous
Publication
Number 1420

(5)

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1973

STUDIES CONTROL AND
SERIALS CONTROL
SERIALS
SERIAL RECORDS

SEP 23 1972

U.S.D.A.
NATL. AGRIC. LIBRARY

ABSTRACT

Burford, James B., Jane L. Thurman, and Ralph T. Roberts. 1982. Hydrologic data for experimental agricultural watersheds in the United States, 1973. U.S. Department of Agriculture Miscellaneous Publication No. 1420, 404 pp.

Hydrologic data from 100 agricultural watersheds for calendar year 1973 are summarized in this publication. Daily and monthly total precipitation and runoff together with annual maximum peak discharge and maximum runoff for selected time intervals are included. Watershed descriptive information is presented. Maximum and minimum daily temperatures are given for many of the watersheds. This is the 17th publication in this series.

KEYWORDS: Air temperature, hydrology data, hydrology research, precipitation, runoff, water data, watersheds.

U.S. DEPARTMENT OF AGRICULTURE
Agricultural Research Service
In Cooperation With
State Agricultural Experiment Stations



**United States
Department of
Agriculture**

**Agricultural
Research
Service**

**Miscellaneous
Publication
Number 1420**

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1973

Compiled by
**JAMES B. BURFORD
JANE L. THURMAN
and
RALPH T. ROBERTS**

Water Data Laboratory
Beltsville Agricultural Research Center
Beltsville, Maryland 20705

PREFACE

This publication presents basic data on monthly precipitation and runoff; annual maximum discharge and maximum volumes of runoff; daily precipitation and mean daily discharge, with daily air temperature for some areas; and selected runoff events, with associated data on rainfall, land use, and antecedent conditions for agricultural watersheds where research was in progress during 1973. It is a continuation of processing and releasing hydrologic data of general interest collected cooperatively with other agencies.

Throughout the watershed studies the State agricultural experiment stations have collaborated in selecting, planning, and conducting these studies. In several studies the U.S. Geological Survey and State and local agencies, such as State water boards and highway departments of local drainage and conservation districts, have assisted in the work. The classification and correlation of soils and evaluation of other watershed characteristics in the descriptions have been based mostly on field surveys by the U.S. Department of Agriculture's Soil Conservation Service.

These data were collected originally for specific research objectives, which are still in progress or have been attained. In addition, they can serve many other purposes. This publication provides information for other government agencies, university staff members, graduate students, private engineers, and those who need detailed, factual information concerning agricultural watersheds. High-quality hydrologic data such as these have historic value in addition to providing a basis for research and design and evaluation of projects and programs for conservation and development of the Nation's water resources.

Although the data on which this publication is based were collected in 1973 or earlier, the findings are still valid and are used for further research on agricultural watersheds.

CONTENTS

	Page
Publications of earlier data	1
Form of data presentation.	1
Continuing watersheds.	12
New watersheds	12
Watershed descriptions	12
Standard symbols for tabular data	14
Personnel responsible for data preparation	15
Additional publications by location.	15
United States index map and related data	19
Location of experimental agricultural watersheds of the Agricultural Research Service (1973) by land resource regions and major land resource areas of the United States.	20
Legend for land resource regions and major land resource areas	21
Watershed data by location number and decimal paging [8.002-1 to 71.004-2, a total of 381 data sheets].	23
Table 1.--Description of references 4-17 of "Hydrologic Data for Experimental Agricultural Watersheds in the United States"	2
Table 2.--Index to information on experimental agricultural watersheds included in references 1-17.	3
Table 3.--Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1973 and included in this publication	22
Table 4.--Watersheds, listed by State and locality, for which data were previously included but are not in this publication	22

The decimal system of paging is used to index the watershed data. Pages are numbered at the bottom (center) according to location and watershed number, and the data for each watershed are given on one or more pages. For example, page 10.001-1 is location 10 (Watkinsville, Ga.), Watershed 1 (W-1 at Watkinsville), and page 1 of the data for that watershed. For convenience in finding items listed in table 3, pages are also numbered consecutively at the bottom (outside corner).

Table 3 is a list of continuing or new watersheds by State, locality, assigned location number, and land resource area, with number of watershed units and selected runoff events reported for 1973 in this publication. Table 4 includes similar data on discontinued watersheds.

Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1973

This is the 17th publication in the series on hydrological data by the U.S. Department of Agriculture. The first three are described in the following section and the others are summarized in table 1. Since the decimal paging system used (see explanation on preceding page) is consistent with that at the bottom of pages in the other 16 publications, previously published records and general descriptions associated with each study can be readily found.

This publication contains selected hydrologic data from 100 watersheds for 1973. It includes data on monthly precipitation and runoff for all the watersheds; annual maximum discharge and maximum volumes of runoff for intervals of 1, 2, 6, and 12 hours and 1, 2, and 8 days for 97 watersheds; daily precipitation for 99 watersheds; mean daily discharge for 100 watersheds; daily maximum and minimum air temperatures for 15 watersheds; and detailed information on 1 or more selected typical storm events for 88 watersheds.

Information on selected storm events includes (1) tabular data for antecedent rainfall and runoff; (2) data on rainfall intensity and runoff for the event and on accumulated depth of rainfall and runoff; (3) description of watershed conditions at the time of the selected events; and (4) plottings of runoff hydrographs and rainfall histograms.

For newly established watersheds, descriptions of watershed physical characteristics, instrumentation, land management, and recommended area of application of the results are given as well as graphs and maps.

The first 11 publications in this series resulted from the cooperative efforts of several watershed research projects of the Agricultural Research Service and the editing staff in Beltsville, Md. Hydrologic data were summarized, arranged according to standardized formats, recorded on preprinted data sheets, and submitted to the editing office for final review, assemblage, and publication.

A computer-oriented system, designed and developed by the Water Data Laboratory, is now used to produce camera copy for these publications. This is the sixth publication that has been compiled using the computerized system. Hydrologic data submitted from research projects, in digital computer form, are accepted by the system. The required data analyses and summaries are performed and the tabular listings and plottings are provided within and by the system. Narrative information is incorporated into the system as upper and lower case alphameric data using computer-compatible word-processing equipment. The format of hand-compiled references (4-11) has been retained where practicable in the computer-compiled versions of the publications.

PUBLICATIONS OF EARLIER DATA

Historical hydrologic data on the experimental agricultural watersheds, both terminated and active, have been previously summarized in three looseleaf publications (reprints in bound volumes) by the Agricultural Research Service. They are described in the following three reference summaries. Beginning

with the hydrologic data for 1956 through 1973, the types of data previously published separately in these three references are combined in U.S. Department of Agriculture Miscellaneous Publications 945, 994, 1070, 1164, 1194, 1216, 1226, 1262, 1330, 1370, 1380, 1383, 1412, and 1420. These 14 publications are listed in table 1 as references 4-17. These reference numbers have been assigned to simplify citations to them in this and future publications. The first three looseleaf and the first eight miscellaneous publications have been recorded on 16-mm microfilm. Copies can be made available for the cost of the film processing.

Reference 1.--"Monthly Precipitation and Runoff for Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Branch, 691 pages, 1957. Includes physical descriptions and land use of 334 experimental agricultural watersheds at 60 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1955.

Reference 2.--"Annual Maximum Flows From Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Division, 330 pages, 1958. Includes records from 322 watersheds at 59 locations in 27 States from 1923 through 1957. Many of these watersheds were discontinued before 1957.

Reference 3.--"Selected Runoff Events for Small Agricultural Watersheds in the United States," Soil and Water Conservation Research Division, 374 pages, 1960. Includes a sampling of 1 to 6 typical runoff events from 68 watersheds at 40 locations in 25 States from 1933 through 1959. The publication has maps of each watershed, information on watershed conditions for each event, including the 30-day antecedent rainfall and runoff, and tabular as well as graphic data on each storm.

Copies of all these publications have been furnished to the Soil Conservation Service and other Federal, State, and local government agencies. They have also been distributed to State agricultural experiment stations, university libraries and engineering departments, private engineers and individuals, and similar foreign institutions and individuals when requested.

Table 2 lists in which of the 17 references data are included for each watershed.

Table 3 summarizes where data for each watershed can be found in this 17th publication.

Table 4 lists the watershed units where studies were discontinued in 1972.

FORM OF DATA PRESENTATION

The data in this publication are presented for each watershed in the following order: (1) Watershed description, if not previously published; (2) monthly precipitation and runoff; (3) average monthly precipitation and runoff for period of record; (4) annual maximum flows; (5) daily temperature extremes for some watersheds, daily precipitation, and mean daily discharge; (6) selected runoff events; (7) graphs of selected runoff events; and (8) watershed maps, if not previously published or if revised.

Table 1.--Description of references 4-17 of "Hydrologic Data for Experimental Agricultural Watersheds in the United States"

Reference	For calendar year (19--)	Miscellaneous Publication No.	Year published (19--)	Total pages	Number of watersheds for which indicated data are given				
					Monthly precipitation and runoff	Annual maximum discharge and runoff for selected time intervals	Selected runoff events	New water-sheds	Daily precipitation, discharge, and/or temperature (max.-min.)
4.....	56-59	945	63	672	157	142	134	45	...
5.....	60-61	994	65	496	160	145	133	24	...
6.....	62	1070	68	447	164	155	136	13	50
7.....	63	1164	70	465	168	156	142	9	57
8.....	64	1194	71	460	163	163	143	8	57
9.....	65	1216	72	568	189	178	122	22	60
10.....	66	1226	72	399	198	185	106	11	60
11.....	67	1262	73	634	216	204	174	26	62
12.....	68	1330	76	542	174	174	116	1	174
13.....	69	1370	79	602	167	150	139	5	167
14.....	70	1380	79	515	153	139	113	2	150
15.....	71	1383	80	509	145	135	122	1	145
16.....	72	1412	81	433	131	117	98	0	131
17.....	73	1420	82	404	100	97	88	1	100

Table 2.--Index to information on experimental agricultural watersheds included in references 1-17^{1/}

Water-shed ident. code	Study location		Water-shed name-No.	Area in acres	Record (19--)		Rev. ref. No.	Index to information in reference 1--																
	Town	State			B	E		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
01001	Arnot Forest	NY	W-1	17.9	41	47		01	02															
01002	Arnot Forest	NY	W-4	17.9	41	47		01	02															
02002	Cohocton	NY	W-II	13.8	38	45		01	02	03														
02003	Cohocton	NY	W-III	24.2	38	45		01	02	03														
04001	Freehold	NJ	W-I	17.5	38	43		01	02	03														
04002	Freehold	NJ	W-II	32.9	38	55		01	02	03														
04003	Freehold	NJ	W-III	51.8	38	43		01	02															
05001	College Park	MD	W-1	8.22	39	54		01	02	03														
05002	College Park	MD	W-2	7.44	39	54		01	02	03														
05003	College Park	MD	W-3	5.02	39	55		01	02															
05004	College Park	MD	W-4	5.03	39	55		01	02															
05005	College Park	MD	W-5	4.07	39	54		01	02															
05006	College Park	MD	W-6	3.53	40	62	06	01	02	03	04	05	06											
05007	College Park	MD	W-7	3.52	40	62	06	01	02	03	04	05	06											
05008	College Park	MD	W-8	2.43	40	55		01	02	03														
05009	College Park	MD	W-9	12.05	40	55		01	02	03														
05010	College Park	MD	W-10	3.04	43	54		01	02															
06001	Hagerstown	MD	W-I	46.3	38	47		01	02															
06002	Hagerstown	MD	W-II	80.8	38	47		01	02	03														
07001	Auburn	AL	W-I	27.0	45	47		01	02															
08001	Vero Beach	FL	W-1	49,915.	51	73	06	01	02	03	04	05	06	07	08	09	10	11						
08002	Vero Beach	FL	W-2	(a)66,880.	55		06	01	02		04	05	06	07	08	09	10	11		13	14	15	16	17
08003	Vero Beach	FL	W-3	(b)12,224.	55		06	01	02		04	05	06	07	08	09	10	11		13	14	15	16	17
08004	Vero Beach	FL	W-4	3,970.	59	73							06	07	08	09	10	11						
08005	Vero Beach	FL	W-5	(c)20,992.	65		15															15	16	17
09001	Americus	GA	W-I	22.8	38	43		01	02															
09002	Americus	GA	W-II	42.8	38	42		01	02															
09003	Americus	GA	W-III	32.0	38	42		01	02															
09004	Americus	GA	W-IV	59.2	38	43		01	02	03														
10001	Watkinsville	GA	W-1	19.2	39		07	01	02		04	05	06	07	08				12	13	14	15	16	17
11001	High Point	NC	W.F.D.R.	21,100.	23	53		01	02	03	04													
11002	High Point	NC	M.C.	10,300.	34	41		01	02		04													
11003	High Point	NC	U.R.	7,230.	34	41		01	02		04													
12001	Statesville	NC	C-8	5.12	33	38		01	02															
12002	Statesville	NC	W-23	6.00	33	38		01	02															
13001	Blacksburg	VA	W-II	5.44	39	51		01	02															
13002	Blacksburg	VA	W-III	19.3	39	67		01	02	03	04	05	06	07	08	09	10	11						
13003	Blacksburg	VA	W-IV	3.49	51	67		01	02		04	05	06	07	08	09	10	11						
13004	Blacksburg	VA	W-V	6.08	52	67		01	02		04	05	06	07	08	09	10	11						
13005	Blacksburg	VA	W-VI	7.70	51	67		01	02		04	05	06	07	08	09	10	11						
13006	Blacksburg	VA	T.C.	3,054.	57	69					04	05	06	07	08	09	10	11	12					
13007	Blacksburg	VA	C.C.	786.	57							05	06	07	08	09	10	11	12	13	14	15	16	
13008	Blacksburg	VA	B.C.	893.	57	08					04	05	06	07	08	09	10	11	12	13	14	15	16	
13009	Blacksburg	VA	P.C.	182.	58	69	08					05	06	07	08	09	10	11	12					
13010	Blacksburg	VA	L.W.C.	1,471.	58	74	08					05	06	07	08	09	10	11	12	13	14	15	16	
13011	Blacksburg	VA	R.R.B.	555.	58	08						05	06	07	08	09	10	11	12	13	14	15	16	
13012	Blacksburg	VA	P.M.B.	192.	58	69	08					05	06	07	08	09	10	11	12					
13013	Blacksburg	VA	C.R.	2,023.	59	69	10					05	06	07	08	09	10	11	12					
13014	Blacksburg	VA	F.C.	389.	60	69	08					05	06	07	08	09	10	11	12					
13015	Blacksburg	VA	C.B.	1,058.	60	08						05	06	07	08	09	10	11	12	13	14	15	16	
14001	Chatham	VA	W-I	13.3	38	48		01	02															
14002	Chatham	VA	W-II	16.1	38	48		01	02															
14003	Chatham	VA	W-III	17.1	38	48		01	02	03														

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-17^{1/}--
Continued

Water- shed ident. code	Study location		Water- shed name-No.	Area in acres	Record (19--) B ₃ /E ₃	Rev. ref. No.	Index to information in reference ^{1/} --																
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
15001	Staunton	VA	W-I	390.	48	55	01	02	03														
15002	Staunton	VA	W-II	2,430.	48	55	01	02															
15003	Staunton	VA	W-III	6,144.	48	55	01	02		04													
16006	Klingerstown	PA	WE-38	1,773.	68													12	13	14	15	16	17
17001	Edwardsville	IL	W-1	27.22	38	55	01	02	03														
17002	Edwardsville	IL	W-2	49.95	38	55	01	02															
17003	Edwardsville	IL	W-3	12.55	38	42	01	02															
17004	Edwardsville	IL	W-4	289.8	38	55	01	02	03														
18001	Elmwood	IL	WB-1	1.28	45	46	01																
18002	Elmwood	IL	WB-2	2.28	45	46	01																
18003	Elmwood	IL	WB-3	2.61	45	46	01																
18004	Elmwood	IL	WB-4	2.77	45	46	01																
18005	Elmwood	IL	WB-5	1.93	45	46	01																
18006	Elmwood	IL	WB-6	2.41	45	46	01																
18007	Elmwood	IL	WT-1	2.02	45	46	01																
18008	Elmwood	IL	WT-2	1.88	45	46	01																
18009	Elmwood	IL	WT-3	2.40	45	46	01																
18010	Elmwood	IL	WT-4	2.06	45	46	01																
18011	Elmwood	IL	WT-5	2.76	45	46	01																
18012	Elmwood	IL	WT-6	5.35	45	46	01																
19001	Lafayette	IN	W-1	2.55	40	53	01	02															
19002	Lafayette	IN	W-2	2.23	40	53	01	02															
19003	Lafayette	IN	W-4	2.01	40	53	01	02															
19004	Lafayette	IN	W-5	2.87	40	53	01	02	03														
19005	Lafayette	IN	W-6	2.79	40	53	01	02	03														
19006	Lafayette	IN	W-7	1.96	40	53	01	02															
19007	Lafayette	IN	W-8	1.96	40	53	01	02															
19008	Lafayette	IN	W-10	2.06	40	53	01	02															
19009	Lafayette	IN	W-11	2.05	40	53	01	02															
19010	Lafayette	IN	W-12	3.37	40	53	01	02															
19011	Lafayette	IN	W-13	3.02	40	53	01	02															
19012	Lafayette	IN	W-14	2.85	40	53	01	02															
19013	Lafayette	IN	W-15	3.59	40	53	01	02															
19014	Lafayette	IN	W-18	3.24	40	53	01	02															
19015	Lafayette	IN	W-20	2.64	40	52	01	02															
19016	Lafayette	IN	W-25	3.52	40	52	01	02															
19017	Lafayette	IN	W-31	1.64	40	51	01	02															
19018	Lafayette	IN	W-32	1.83	40	51	01	02															
19019	Lafayette	IN	W-33	3.44	40	51	01	02															
19020	Lafayette	IN	W-34	3.17	40	51	01	02															
20001	Clarinda	IA	W-V	3.25	32	42	01	02															
20002	Clarinda	IA	W-W	1.97	34	42	01	02															
20003	Clarinda	IA	W-X	1.97	34	42	01	02															
20004	Clarinda	IA	W-Y	3.25	32	42	01	02															
20005	Clarinda	IA	W-Z	3.12	32	42	01	02															
21001	Iowa City	IA		1,930.	24	07	01	02	03	04	05	06	07	08	09	10	11	12					
22001	Shenandoah	IA	No. 1	128,000.	34	40	01	02															
22002	Shenandoah	IA	No. 2	67,200.	34	40	01	02															
23001	East Lansing	MI	A	1.98	41	59	01	02		04													
23002	East Lansing	MI	B	1.35	41	59	01	02		04													
23003	East Lansing	MI	W	1.65	41	59	01	02		04													
24001	Bethany	MO	Pa-A	2.03	34	42	01	02															
24002	Bethany	MO	Pa-B	5.56	32	42	01	02															
24003	Bethany	MO	Pa-C	1.97	37	42	01	02															
24004	Bethany	MO	D-1	7.51	34	42	01	02															
24005	Bethany	MO	D-2	8.03	34	42	01	02															
24006	Bethany	MO	D-3	4.48	32	42	01	02	03														
24007	Bethany	MO	I-58	2.12	33	42	01	02															
24008	Bethany	MO	IJ-1	2.13	33	42	01	02															

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-17^{1/}--
Continued

Water- shed ident. code	Study location		Water- shed name-No.	Area in acres	Record		Rev. ref. No.	Index to information in reference ^{1/} --																
	Town	State			B	E																		
								01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
25001	McCredie	MO	S.R.W.	153.	41		07	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17
25002	McCredie	MO	No.2	44.3	51	63	07	01	02		04	05	06	07										
26001	Coshocton	OH	102	1.26	37		06	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17
26002	Coshocton	OH	104	1.33	37	46		01	02		04													
26003	Coshocton	OH	129	2.71	38	71	06	01	02		04	05	06	07	08	09	10	11	12	13	14	15		
26004	Coshocton	OH	135	2.69	38	69	06	01	02		04	05	06	07	08	09	10	11	12	13				
26005	Coshocton	OH	130	1.63	38	71	06	01	02		04	05	06	07	08	09	10	11	12	13	14			
26006	Coshocton	OH	107	2.59	38	46		01	02		04													
26007	Coshocton	OH	131	2.21	38	69	06	01	02		04	05	06	07	08	09	10	11	12	13				
26008	Coshocton	OH	132	0.62	48	69	06	01	02		04	05	06	07	08	09	10	11	12	13				
26009	Coshocton	OH	134	0.92	38	46		01	02		04													
26010	Coshocton	OH	123	1.37	39		06	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17
26011	Coshocton	OH	115	1.61	39	70	06	01	02		04	05	06	07	08	09	10	11	12	13				
26012	Coshocton	OH	127	1.65	49	70	06	01	02		04	05	06	07	08	09	10	11	12	13				
26013	Coshocton	OH	109	1.69	38		06	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17
26014	Coshocton	OH	103	0.65	39		06	01	02		04	05	06	07	08	09	10	11	12	13				
26015	Coshocton	OH	110	1.27	39		06	01	02		04	05	06	07	08	09	10	11	12	13				
26016	Coshocton	OH	113	1.45	39	76	06	01	02		04	05	06	07	08	09	10	11	12	13				
26017	Coshocton	OH	118	1.96	40	76	06	01	02		04	05	06	07	08	09	10	11	12	13				
26018	Coshocton	OH	111	1.18	39	70	06	01	02		04	05	06	07	08	09	10	11	12	13				
26019	Coshocton	OH	121	1.42	39		06	01	02		04	05	06	07	08	09	10	11	12	13				
26020	Coshocton	OH	106	1.56	39	72	06	01	02		04	05	06	07	08	09	10	11	12	13	14	15		
26021	Coshocton	OH	188	2.05	39	70	06	01	02		04	05	06	07	08	09	10	11	12	13				
26022	Coshocton	OH	124	2.07	39	47		01	02		04													
26023	Coshocton	OH	185	7.40	39	72	06	01	02		04	05	06	07	08	09	10	11	12	13	14			
26024	Coshocton	OH	187	7.20	41	72	06	01	02		04	05	06	07	08	09	10	11	12	13	14			
26025	Coshocton	OH	192	7.59	39		06	01	02		04	05	06	07	08	09	10	11	12	13				
26026	Coshocton	OH	172	43.6	39	72	06	01	02		04	05	06	07	08	09	10	11						
26027	Coshocton	OH	169	29.0	40	71	06	01	02		04	05	06	07	08	09	10	11	12	13				
26028	Coshocton	OH	177	75.6	40	71	06	01	02		04	05	06	07	08	09	10	11	12	13				
26029	Coshocton	OH	183	74.2	38	63	06	01	02	03	04	05	06	07										
26030	Coshocton	OH	196	303.	37		06	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
26031	Coshocton	OH	10	122.	39	71	06	01	02		04	05	06	07	08	09	10	11	12	13	14			
26032	Coshocton	OH	5	349.	40	71	06	01	02		04	05	06	07	08	09	10	11	12	13	14			
26033	Coshocton	OH	92	920.	39	71	06	01	02		04	05	06	07	08	09	10	11	12	13	14			
26034	Coshocton	OH	94	1,520.	39	71	06	01	02		04	05	06	07	08	09	10	11	12	13	14			
26035	Coshocton	OH	95	2,570.	39	72	06	01	02		04	05	06	07	08	09	10	11	12	13	14	15		
26036	Coshocton	OH	97	4,580.	37	70	06	01	02	03	04	05	06	07	08	09	10	11	12	13	14			
26037	Coshocton	OH	994	17,400.	36		06	01	02		04	05	06	07	08	09	10	11						
26038	Coshocton	OH	174	52.8	60	77	06					05	06	07	08	09	10	11	12	13	14	15	16	17
26039	Coshocton	OH	194	187.	60	77	06					05	06	07	08	09	10	11	12	13	14	15	16	17
26040	Coshocton	OH	182	69.6	64												10	11	12	13	14			
26041	Coshocton	OH	166	79.2	67																13	14	15	
27001	Hamilton	OH	W-1	187.	38	44		01	02	03														
27002	Hamilton	OH	W-II	16.2	38	44		01	02															
27003	Hamilton	OH	W-III	28.8	38	44		01	02															
27004	Hamilton	OH	W-IV	20.3	38	44		01	02															
28001	Zanesville	OH	C.W.	2.55	34	45		01	02															
28002	Zanesville	OH	P.W.	3.57	34	45		01	02															
28003	Zanesville	OH	W.W.	2.23	34	45		01	02															
29001	Colby	WI	W-1	345.	49	66		01	02	03	04	05	06	07	08	09	10							
30001	Coon Valley	WI	No. 1	49,400.	34	40		01	02															
30002	Coon Valley	WI	No. 2	49,344.	34	40		01	02															
31001	Fennimore	WI	W-1	330.	38	69	07	01	02	03	04	05	06	07	08	09	10	11						
31002	Fennimore	WI	W-2	22.8	38	68	07	01	02	03	04	05	06	07	08	09	10	11						
31003	Fennimore	WI	W-3	52.5	38	69	07	01	02		04	05	06	07	08	09	10	11						
31004	Fennimore	WI	W-4	171.	38	68	07	01	02	03	04	05	06	07	08	09	10	11						

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-17^{1/}--
Continued

Water- shed ident. code	Study location		Water- shed name-No.	Area in acres	Record Rev. (19--) ref.			Index to information in reference ^{1/} --																
	Town	State			B	E	N ^o .	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
32001	La Crosse	WI	U.P.W.	2.41	33	55		01	02															
32002	La Crosse	WI	U.C.W.	2.24	33	46		01	02															
32003	La Crosse	WI	C.W.	2.71	37	63	07	01	02		04	05	06	07										
32004	La Crosse	WI	C.W.A.	2.95	52	63	07	01	02		04	05	06	07										
32005	La Crosse	WI	E-3	1.01	33	42		01	02															
32006	La Crosse	WI	A-4	2.21	33	54		01	02															
33001	Bentonville	AR	W-1	10.03	38	43		01	02															
33002	Bentonville	AR	W-2	9.34	38	47		01	02															
33003	Bentonville	AR	W-3	14.25	38	47		01	02															
33004	Bentonville	AR	W-4	24.	39	47		01	02															
33005	Bentonville	AR	W-5	19.4	38	47		01	02	03														
33006	Bentonville	AR	W-6	10.75	39	47		01	02															
34001	Cherokee	OK	W-1	2.23	42	60		01	02		04													
34002	Cherokee	OK	W-2	4.82	42	60		01	02		04													
34003	Cherokee	OK	W-3	8.04	42	60		01	02		04													
34004	Cherokee	OK	W-4	4.35	42	60		01	02		04													
34005	Cherokee	OK	W-5	7.85	42	60		01	02		04													
34006	Cherokee	OK	W-6	1.75	42	60		01	02		04													
34007	Cherokee	OK	W-7	1.99	42	60		01	02		04													
34008	Cherokee	OK	W-8	4.72	41	60		01	02		04													
34009	Cherokee	OK	W-9	8.50	42	60		01	02	03	04													
34010	Cherokee	OK	W-10	1.68	60	67						05	06	07	08	09	10	11						
34011	Cherokee	OK	W-11	2.12	60	67						05	06	07	08	09	10	11						
34012	Cherokee	OK	W-12	1.68	60	67						05	06	07	08	09	10	11						
34013	Cherokee	OK	W-13	1.99	60	67						05	06	07	08	09	10	11						
34014	Cherokee	OK	W-14	2.16	60	67						05	06	07	08	09	10	11						
34015	Cherokee	OK	W-15	2.15	60	67						05	06	07	08	09	10	11						
35001	Guthrie	OK	W-1	33.40	32	53		01	02															
35002	Guthrie	OK	W-2	3.21	31	51		01	02															
35003	Guthrie	OK	W-3	3.13	30	51		01	02															
35004	Guthrie	OK	W-4	5.62	31	53		01	02															
35005	Guthrie	OK	W-5	5.28	31	47		01	02															
35006	Guthrie	OK	W-I	2.50	37	53		01	02															
35007	Guthrie	OK	W-II	5.09	42	55		01	02															
35008	Guthrie	OK	W-III	9.09	42	53		01	02															
35009	Guthrie	OK	W-IV	13.4	42	53		01	02															
35010	Guthrie	OK	W-V	15.7	42	53		01	02															
35011	Guthrie	OK	W-VI	94.8	42	55		01	02	03														
36001	Muskogee	OK	W-I	14.5	39	47		01	02															
36002	Muskogee	OK	W-II	65.4	39	45		01	02															
36003	Muskogee	OK	W-IV	24.9	38	47		01	02															
37001	Stillwater	OK	W-1	16.7	51		05	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17
37002	Stillwater	OK	W-3	92.	51	72		01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
37003	Stillwater	OK	W-4	206.	51			01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	
38001	Garland	TX	W-I	25.	38	47		01	02															
38002	Garland	TX	W-III	10.4	38	47		01	02															
38003	Garland	TX	W-IV	16.2	39	47		01	02															
39001	Spur	TX	W-1	11.53	27	45		01	02															
39002	Spur	TX	W-2	9.39	27	45		01	02															
39003	Spur	TX	W-3	11.71	27	44		01	02															
39004	Spur	TX	W-5	5.81	27	45		01	02															
39005	Spur	TX	W-6	5.32	27	45		01	02															
39006	Spur	TX	W-11	8.70	30	45		01	02															
39007	Spur	TX	W-12	8.41	30	45		01	02															
39008	Spur	TX	W-14	8.53	30	45		01	02															
39009	Spur	TX	W-15	8.50	30	45		01	02															
40001	Tyler	TX	W-2	9.15	43	44		01	02	03														
40002	Tyler	TX	W-3	7.94	32	42		01	02															
40003	Tyler	TX	W-4	6.05	31	42		01	02															
40004	Tyler	TX	W-5	1.57	32	42		01	02															

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-17¹--
Continued

Water- shed ident. code	Study location		Water- shed name-No.	Area in acres	Record (19--) B ₃ /E N ₉ .	Rev. ref.	Index to information in reference ¹ --																	
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	
41001	Vega	TX	W-1	129.	38 43		01	02																
41002	Vega	TX	W-2	95.9	38 43		01	02	03															
42001	Riesel	TX	A	42.	38 43		01	02																
42002	Riesel	TX	C	579.	38	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42003	Riesel	TX	D	1,110.	37	08	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42004	Riesel	TX	G	4,380.	38	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42005	Riesel	TX	J	5,860.	37 43		01	02	03															
42006	Riesel	TX	W-1	174.	37	08	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42007	Riesel	TX	W-2	130.	37	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42008	Riesel	TX	W-6	42.3	39	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42009	Riesel	TX	W-8	40.4	38 43		01	02																
42010	Riesel	TX	W-10	19.7	38	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42011	Riesel	TX	Y	309.	37	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42012	Riesel	TX	Y-2	132.	39	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42013	Riesel	TX	Y-4	79.9	39	08	01	02		04	05	06	07	08	09	10	11	12						
42014	Riesel	TX	Y-6	16.3	39	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42015	Riesel	TX	Y-7	40.	39	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42016	Riesel	TX	Y-8	20.8	39	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42017	Riesel	TX	Y-10	18.6	38	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42018	Riesel	TX	SW-2	2.7	38 43		01	02																
42019	Riesel	TX	SW-3	3.09	39 43		01	02																
42020	Riesel	TX	SW-5	3.09	38 43		01	02																
42021	Riesel	TX	SW-6	3.04	38 43		01	02																
42022	Riesel	TX	SW-7	3.15	38 43		01	02																
42023	Riesel	TX	SW-11	2.66	38		01	02												13	14	15	16	17
42024	Riesel	TX	SW-12	2.90	38	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42025	Riesel	TX	SW-13	3.19	38 43		01	02																
42026	Riesel	TX	SW-14	3.02	39 43		01	02																
42027	Riesel	TX	SW-16	3.17	37 43		01	02																
42028	Riesel	TX	SW-17	2.99	39	08	01	02		04	05	06	07	08	09	10	11	12	13	14	15	16	17	
42029	Riesel	TX	SW-18	3.04	38 43		01	02																
42030	Riesel	TX	Z	310.	39 43		01	02																
42031	Riesel	TX	P-1	.24	38 68	08				05	06	07	08	09	10	11	12							
42032	Riesel	TX	P-2	.24	38 68	08				05	06	07	08	09	10	11	12							
42033	Riesel	TX	P-3	.24	38 68	08				05	06	07	08	09	10	11	12							
42034	Riesel	TX	P-4	.24	38 68	08				05	06	07	08	09	10	11	12							
42035	Riesel	TX	SW-19	3.25	70																14	15	16	17
42036	Riesel	TX	SW-20	3.21	70																14	15	16	17
42037	Riesel	TX	Y-13	11.3	69															13	14	15	16	17
42038	Riesel	TX	Y-14	5.6	69															13	14	15	16	17
42039	Riesel	TX	W-12	9.9	69															13	14	15	16	17
42040	Riesel	TX	W-13	11.3	69															13	14	15	16	17
43001	Hays	KS	6L	2.85	34 38		01	02																
43002	Hays	KS	AG	1.61	32 47		01	02																
44001	Hastings	NE	W-3	481.	38 67	06	01	02	03	04	05	06	07	08	09	10	11							
44002	Hastings	NE	W-5	411.	39 67		01	02		04	05													
44003	Hastings	NE	W-8	2,086.	39 67	06	01	02	03	04	05	06	07	08	09	10	11							
44004	Hastings	NE	W-11	3,490.	39 67	06	01	02		04	05	06	07	08	09	10	11							
44005	Hastings	NE	1-H	3.62	39 67	06	01	02		04	05	06	07	08	09	10	11							
44006	Hastings	NE	2-H	3.40	39 67	06	01	02		04	05	06	07	08	09	10	11							
44007	Hastings	NE	3-H	3.77	39 67	06	01	02		04	05	06	07	08	09	10	11							
44008	Hastings	NE	4-H	3.64	39 67	06	01	02		04	05	06	07	08	09	10	11							
44009	Hastings	NE	5-H	4.02	39 67	06	01	02		04	05	06	07	08	09	10	11							
44010	Hastings	NE	6-H	4.01	39 67	06	01	02		04	05	06	07	08	09	10	11							
44011	Hastings	NE	7-H	4.26	39 67	06	01	02		04	05	06	07	08	09	10	11							
44012	Hastings	NE	8-H	3.97	39 67	06	01	02		04	05	06	07	08	09	10	11							
44013	Hastings	NE	9-H	3.78	39 54		01	02																
44014	Hastings	NE	10-H	3.98	39 54		01	02																
44015	Hastings	NE	11-H	3.85	39 54		01	02																

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-17^{1/}--
Continued

Water-shed ident. code	Study location		Water-shed name-No.	Area in acres	Record (19--) B 3/E	Rev. ref. No.	Index to information in reference ^{1/} --																
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
44016	Hastings	NE	12-H	3.66	39	54	01	02															
44017	Hastings	NE	13-H	3.41	39	54	01	02															
44018	Hastings	NE	14-H	3.35	39	54	01	02															
44019	Hastings	NE	15-H	3.62	39	54	01	02															
44020	Hastings	NE	16-H	3.57	39	54	01	02															
44021	Hastings	NE	17-H	3.96	39	54	01	02															
44022	Hastings	NE	18-H	3.74	39	67	06	01	02	04	05	06	07	08	09	10	11						
44023	Hastings	NE	19-H	4.10	41	54	01	02															
44024	Hastings	NE	20-H	4.05	41	54	01	02															
44025	Hastings	NE	21-H	3.94	41	54	01	02															
44026	Hastings	NE	22-H	3.83	41	67	06	01	02			06	07	08	09	10	11						
44027	Hastings	NE	23-H	4.20	41	67	01	02				06	07	08	09	10	11						
44028	Hastings	NE	24-H	4.21	41	54	01	02															
44029	Hastings	NE	25-H	2.24	63	67							07	08	09	10	11						
69028	Safford	AZ	W-I	519.	39	76	07	01	02	04	05	06	07	08	09	10	11						
45002	Safford	AZ	W-II	682.	39	76	08	01	02	03	04	05	06		08	09	10	11					
45003	Safford	AZ	W-IV	764.	39	76	01	02		04	05	06		06	09	10	11						
45004	Safford	AZ	W-V	723.	39	76	07	01	02	04	05	06	07	08	09	10	11						
46001	Colorado Spr.	CO	W-1	10.6	38	46	01	02															
46002	Colorado Spr.	CO	W-2	39.7	38	46	01	02															
46003	Colorado Spr.	CO	W-3	35.4	38	46	01	02															
46004	Colorado Spr.	CO	W-4	35.6	38	46	01	02	03														
47001	Albuquerque	NM	W-I	246.	39	76	08	01	02	03	04	05	06		08	09	10	11	12				
47002	Albuquerque	NM	W-II	40.5	39	76	07	01	02	04	05	06	07	08	09	10	11	12					
47003	Albuquerque	NM	W-III	176.	39	76	07	01	02	04	05	06	07	08	09	10	11	12					
48001	Mexican Spr.	NM	W-1	187.	38	42	01	02															
48002	Mexican Spr.	NM	W-2	610.	37	42	01	02	03														
48003	Mexican Spr.	NM	W-3	1,325.	38	42	01	02															
48004	Mexican Spr.	NM	W-6	5,550.	37	42	01	02	03														
48005	Mexican Spr.	NM	W-7	8,495.	38	42	01	02															
48006	Mexican Spr.	NM	W-8	20,910.	37	42	01	02	03														
48007	Mexican Spr.	NM	W-10	17,220.	37	42	01	02															
48008	Mexican Spr.	NM	W-11	46,080.	37	39	01	02	03														
48009	Mexican Spr.	NM	W-12	2,550.	37	39	01	02															
48010	Mexican Spr.	NM	W-13	3,360.	37	39	01	02															
48011	Mexican Spr.	NM	W-14	3,560.	37	38	01	02															
48012	Mexican Spr.	NM	W-15	4,740.	37	39	01	02															
49001	Santa Fe	NM	W-I	141.	39	48	01	02	03														
49002	Santa Fe	NM	W-II	790.	39	48	01	02															
49003	Santa Fe	NM	W-III	51.6	39	48	01	02															
50001	Placerville	CA	W-1	41.	35	44	01	02	03														
51001	Santa Paula	CA	W-1	413.	38	42	01	02															
51002	Santa Paula	CA	W-3	106.	38	42	01	02															
51003	Santa Paula	CA	W-4	44.4	38	42	01	02															
51004	Santa Paula	CA	W-5	55.1	38	42	01	02															
51005	Santa Paula	CA	W-6	163.	38	42	01	02															
51006	Santa Paula	CA	H.B.R.	735.	36	42	01	02															
51007	Santa Paula	CA	L.A.	1,607.	34	40	01	02															
51008	Santa Paula	CA	H.P.R.	1,832.	34	43	01	02															
51009	Santa Paula	CA	H.A.B.	5,939.	34	37	01	02															
52001	Sebastopol	CA	W-1	83.	36	43	01	02	03														
52002	Sebastopol	CA	W-2	56.	36	40	01	02															
53001	Vacaville	CA	W-I	40.	37	42	01	02															
54001	Watsonville	CA	W-1	16.8			01	02															
54002	Watsonville	CA	W-2	18.5			01	02															
54003	Watsonville	CA	W-3	27.4	38	42	01	02	03														
54004	Watsonville	CA	W-4	10.1	38	42	01	02															

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-17^{1/}--
Continued

Water- shed ident. code	Study location		Water- shed name-No.	Area in acres	Record (19--) B E 3/		Rev. ref. No.	Index to information in reference 1--																
	Town	State						01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
55001	Emmett	ID	W-1	219.4	38	41		01	02															
55002	Emmett	ID	W-2	69.4	38	41		01	02	03														
56001	Moscow	ID	W-1	146.8	37	42		01	02	03														
56002	Moscow	ID	W-2	177.9	37	42		01	02	03														
57001	Newberg	OR	W-1	13.2	38	42		01	02	03														
57002	Newberg	OR	W-2	21.6	38	42		01	02															
57003	Newberg	OR	W-3	12.8	38	42		01	02	03														
57004	Newberg	OR	W-4	6.2	38	42		01	02	03														
58001	Dayton	WA	W-1	19.2	39	42		01	02															
59001	Pullman	WA	S.F.P.R.	51,900.	34	40		01	02															
59002	Pullman	WA	M.F.C.	17,600.	34	40		01	02															
59003	Pullman	WA	F.M.C.	46,000.	34	40		01	02															
60001	Pullman	WA	G.S.2	68.2	31	46		01	02	03														
60002	Pullman	WA	G.S.4	2.33	31	38		01	02															
60003	Pullman	WA	G.S.5	14.4	32	46		01	02															
60004	Pullman	WA	G.S.6	15.2	32	46		01	02															
60005	Pullman	WA	G.S.7	16,700.	32	38		01	02															
60006	Pullman	WA	G.S.8	762.	34	41		01	02	03														
60007	Pullman	WA	G.S.9	879.	41	46		01	02															
60008	Pullman	WA	G.S.10	4,430.	41	47		01	02	03														
61001	Monticello	IL	IA	82.	49	59		01	02	03	04													
61002	Monticello	IL	IB	45.5	49	59		01	02	03	04													
62001	Oxford	MS	W-4	2,000.	57		06		03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	
62002	Oxford	MS	W-5	1,000.	57		06		03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	
62003	Oxford	MS	W-10	5,530.	57		06		03	04	05	06	07	08	09	10	11	12	13	14	15			
62004	Oxford	MS	W-12	22,800.	57		06			04	05	06	07	08	09	10	11	12	13	14	15			
62005	Oxford	MS	W-17	32,100.	57		06			04	05	06	07	08	09	10	11	12	13	14	15	16	17	
62006	Oxford	MS	W-19	243.	57	64	06			04	05	06	07	08										
62007	Oxford	MS	W-24	512.	57		06			04	05	06	07	08	09	10	11	12	13	14	15			
62008	Oxford	MS	W-28	1,080.	57		06			04	05	06	07	08	09	10	11	12	13	14	15			
62009	Oxford	MS	W-30	113.	57	59				04														
62010	Oxford	MS	W-32	20,000.	57		06			04	05	06	07	08	09	10	11	12	13	14	15	16	17	
62011	Oxford	MS	W-34	75,000.	57		06		03	04	05	06	07	08	09	10	11	12	13		15	16	17	
62012	Oxford	MS	W-35	7,550.	57	77	06			04	05	06	07	08	09	10	11	12	13	14	15			
62013	Oxford	MS	WC-1	3.88	58		06			04	05	06	07	08	09	10	11							
62014	Oxford	MS	WC-2	1.45	58		06			04	05	06	07	08	09	10	11							
62015	Oxford	MS	WC-3	1.61	58		06			04	05	06	07	08	09	10	11							
62016	Oxford	MS	WP-4	3.01	58	63	06			04	05	06	07											
62017	Oxford	MS	W-17A	3,200.	57		06			05	06	07	08	09	10	11	12	13	14	15				
62018	Oxford	MS	W-35A	1,090.	57		06			05	06	07	08	09	10	11	12	13	14	15				
63001	Tombstone	AZ	W-1	36,900.	54	74	07			04	05	06	07	08	09	10		12	13	14	15	16	17	
63002	Tombstone	AZ	W-2	28,100.	54	74	07			04	05	06	07		09	10		12	13	14	15	16	17	
63003	Tombstone	AZ	W-3	2,220.	54	74	07			04	05	06	07		09	10	11	12	13	14	15	16	17	
63004	Tombstone	AZ	W-4	560.	54	74	07			04	05	06	07	08	09	10	11	12	13	14	15	16	17	
63005	Tombstone	AZ	W-5	5,510.	54	73	07			04	05	06	07											
63006	Tombstone	AZ	W-6	23,500.	62	74							07	08	09	10		12	13	14	15			
63007	Tombstone	AZ	6307	3,340.	66	74											10	11						
63008	Tombstone	AZ	6308	3,830.	63	74								08	09	10		12	13	14	15	16	17	
63011	Tombstone	AZ	6311	2,035.	63	74								08	09	10		12	13	14	15	16	17	
63015	Tombstone	AZ	6315	5,912.	65	74								09	10	11	12	13	14	15	16	17		
63103	Tombstone	AZ	63103	8.3	65												10	11	12					
63111	Tombstone	AZ	63111	143.	62	68											10	11	12					
64001	Santa Rosa	NM	W-1	42,880.	55	79				04	05	06	07	08	09	10		12	13	14	15	16	17	
65002	Newell	SD	W-2	115.	58	73				04	05	06	07	08	09	10	11	12	13	14	15	16		
65003	Newell	SD	W-3	90.	58	61				04	05													
65004	Newell	SD	W-4	105.	58	61				04	05													
65005	Newell	SD	W-5	46.	58	73				04	05	06	07	08	09	10	11	12	13	14	15	16		
65006	Newell	SD	W-6	30.	58	61				04	05													

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-17¹--
Continued

Water- shed ident. code	Study location		Water- shed name-No.	Area in acres	Record (19--) B ₃ /E ₃	Rev. ref. No.	Index to information in reference--																		
	Town	State					01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17		
65007	Newell	SD	W-7	160.	58	73	05				04	05	06	07	08	09	10	11	12	13	14	15	16		
65008	Newell	SD	W-8	160.	58	61					04	05													
65009	Newell	SD	W-9	815.	58	61					04	05													
65010	Newell	SD	W-10	280.	58	61					04	05													
65011	Newell	SD	W-11	160.	58	61					04	05													
65012	Newell	SD	W-12	90.	58	73	05				04	05	06	07	08	09	10	11	12	13	14	15	16		
65013	Newell	SD	W-13	160.	58	73					04	05	06	07	08	09	10	11	12	13	14	15	16		
65014	Newell	SD	W-14	35.	58	73	05				04	05	06	07	08	09	10	11	12	13	14	15	16		
65015	Newell	SD	W-15	115.	58	73	05				04	05	06	07	08	09	10	11	12	13	14	15	16		
65016	Newell	SD	W-16	13,000.	58	61	05				04	05													
66001	Moorefield	WV	W-1	8.57	58	67	06				04	05	06	07	08	09	10	11							
66002	Moorefield	WV	W-2	9.73	58	67	06				04	05	06	07	08	09	10	11							
66004	Moorefield	WV	W-4	6.32	58	67	06				04	05	06	07	08	09	10	11							
66005	Moorefield	WV	W-5	9.55	58	67	06				04	05	06	07	08	09	10	11							
67001	N. Danville	VT	W-1	10,610.	58	76					04	05	06	07	08			11	12	13	14	15	16	17	
67002	N. Danville	VT	W-2	146.	58	78					04	05	06	07	08			11	12	13	14	15			
67003	N. Danville	VT	W-3	2,067.	60							05	06	07	08			11	12	13	14	15	16	17	
67004	N. Danville	VT	W-4	10,752.	60	74												11	12	13	14	15	16	17	
67005	N. Danville	VT	W-5	27,469.	60	79						05	06	07	08			11	12	13	14	15	16	17	
68001	Reynolds	ID	W-1	57,700.	63									07	08	09	10	11	12	13	14	15	16	17	
68002	Reynolds	ID	W-2	8,990.	65											09	10	11	12	13	14	15	16	17	
68003	Reynolds	ID	W-3	7,846.	66												10	11	12	13	14	15	16	17	
68004	Reynolds	ID	W-4	13,453.	67													11	12	13	14	15	16	17	
68011	Reynolds	ID	W-11	306.	67	78													11	12	13	14	15	16	17
68012	Reynolds	ID	W-12	205.	67	77													11	12	13	14	15	16	17
68013	Reynolds	ID	W-13	100.	63												10	11	12	13	14	15	16	17	
68014	Reynolds	ID	W-14	33.	67														11	12	13	14	15	16	17
69001	Chickasha	OK	100	2,339,800.	61	79							06	07	08	09	10	11	12	13	14	15	16	17	
69002	Chickasha	OK	200	(d)2,612,500. (e) 273,000.	61	75							06	07	08	09	10	11	12	13	14	15	16	17	
69004	Chickasha	OK	400	(d)2,725,760. (e) 112,910.	61	68							06	07	08	09	10								
69005	Chickasha	OK	500	(d)2,769,920. (e) 43,840.	64	78									08	09	10	11	12	13	14	15	16	17	
69006	Chickasha	OK	600	(d)3,011,800. (e) 243,050.	63	72								07	08	09	10	11	12	13	14				
69007	Chickasha	OK	700	(d)3,061,120. (e) 50,830.	61	78							06	07	08	09	10	11	12	13	14	15	16	17	
69008	Chickasha	OK	611	4,845.	61	74							06	07	08	09				13	14	15	16	17	
69009	Chickasha	OK	612	563.	61	74							06	07	08	09	10	11	12	13	14	15	16	17	
69010	Chickasha	OK	111	16,634.	62	78							06	07	08	09	10	11	12	13	14	15	16	17	
69011	Chickasha	OK	131	25,660.	62	78							06	07	08	09	10	11	12	13	14	15	16	17	
69012	Chickasha	OK	411	33,330.	62	74							06	07	08	09	10	11	12	13	14	15	16	17	
69013	Chickasha	OK	511	38,020.	62	78							06	07	08	09	10	11	12	13	14	15	16	17	
69014	Chickasha	OK	110	25,020.	63	78								07	08	09	10	11	12	13	14	15	16	17	
69015	Chickasha	OK	522	132,990.	63									07	08	09	10	11	12	13	14	15	16	17	
69016	Chickasha	OK	512	22,530.	63	78								07	08	09	10	11	12	13	14	15	16	17	
69017	Chickasha	OK	621	21,310.	63									07	08	09	10	11	12	13	14	15	16	17	
69018	Chickasha	OK	121	131,780.	63	74								07	08	09	10	11	12	13	14	15	16	17	
69019	Chickasha	OK	513	12,314.	65	78										09	10	11	12	13	14	15	16	17	
69020	Chickasha	OK	514	7,225.	67	78													11						
69021	Chickasha	OK	5141	4,064.	67	78													11						
69022	Chickasha	OK	5142	360.	67	74													11						
69023	Chickasha	OK	5143	485.	67	74													11						
69024	Chickasha	OK	5144	1,456.	67	78													11						
69025	Chickasha	OK	5145	253.	67	78													11						
69026	Chickasha	OK	5146	762.	67	78													11						

See footnotes at end of table.

Table 2.--Index to information on experimental agricultural watersheds included in references 1-17^{1/}--
Continued

Water-shed ident. code	Study location		Water-shed name-No.	Area in acres	Record Rev. (19--) B ₂ /E ₂ N ₂ /E ₂	Index to information in reference ^{1/} --																
	Town	State				01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17
69027	Chickasha	OK	311	15,206.	67 78											11	12	13	14	15	16	17
69028	Chickasha	OK	515	1,657.	73																	17
69030	Chickasha	OK	C-1	17.8	65 76									09	10	11	12	13	14	15	16	17
69031	Chickasha	OK	C-2	32.5	62 75									09	10	11	12	13	14	15	16	17
69032	Chickasha	OK	C-3	44.3	65 76									09	10	11	12	13	14	15	16	17
69033	Chickasha	OK	C-4	29.9	65 76									09	10	11	12	13	14	15	16	17
69034	Chickasha	OK	C-5	12.8	65 76									09	10	11	12	13	14	15	16	17
69035	Chickasha	OK	C-6	13.0	65 76									09	10	11	12	13	14	15	16	17
69036	Chickasha	OK	C-7	26.5	65 76									09	10	11	12	13	14	15	16	17
69037	Chickasha	OK	C-8	27.3	65 76									09	10	11	12	13	14	15	16	17
69038	Chickasha	OK	R-1	17.8	62 74									09	10	11	12	13	14	15	16	17
69039	Chickasha	OK	R-2	24.1	62 74									09	10	11	12	13	14	15	16	17
69040	Chickasha	OK	R-3	25.8	62 74									09	10	11	12	13	14	15	16	17
69041	Chickasha	OK	R-4	18.1	62 74									09	10	11	12	13	14	15	16	17
69042	Chickasha	OK	R-5	23.7	66 78										10	11	12	13	14	15	16	17
69043	Chickasha	OK	R-6	27.2	66 78										10	11	12	13	14	15	16	17
69044	Chickasha	OK	R-7	19.2	66 78										10	11	12	13	14	15	16	17
69045	Chickasha	OK	R-8	27.6	66 78										10	11	12	13	14	15	16	17
70001	Sonora	TX	W-14	30,720.	61 73											11	12	13	14	15	16	
70002	Sonora	TX	S-9	1,774.	61 73												11	12	13	14	15	16
70003	Sonora	TX	S-10	5,392.	61 73												11	12	13	14	15	16
70004	Sonora	TX	S-11	10,787.	61 73												11	12	13	14	15	16
70005	Sonora	TX	S-12	2,801.	61 73												11	12	13	14	15	
70006	Sonora	TX	S-13	686.	61 73												11	12	13	14	15	16
70007	Sonora	TX	W-1	10.2	63 75												11	12	13	14	15	16
70008	Sonora	TX	W-2	8.6	65 75												11	12	13	14	15	16
70009	Sonora	TX	W-3	6.7	65 75												11	12	13	14	15	16
70010	Sonora	TX	W-4	4.5	66 75												11	12	13	14	15	16
70011	Sonora	TX	W-5	7.2	66 75												11	12	13	14	15	16
70012	Sonora	TX	W-6	6.9	66 75												11	12	13	14	15	16
70013	Sonora	TX	W-7	12.2	65 73												11	12	13	14	15	16
71001	Treynor	IA	W-1	74.5	64								08	09	10	11	12	13	14	15	16	17
71002	Treynor	IA	W-2	82.8	64								08	09	10	11	12	13	14	15	16	17
71003	Treynor	IA	W-3	107.	64								08	09	10	11	12	13	14	15	16	17
71004	Treynor	IA	W-4	150.	64								08	09	10	11	12	13	14	15	16	17
71005	Treynor	IA	W-5	389.	63 73								08	09	10	11	12	13	14	15		
72001	Cottonwood	SD	H-2	2.13	63 73									09	10	11	12	13	14	15	16	
72002	Cottonwood	SD	L-2	2.38	63 73									09	10	11	12	13	14	15	16	
72005	Cottonwood	SD	M-1	2.35	63 73									09	10	11	12	13	14	15	16	
73002	Fort Staunton	NM	7302	32.2	66											10						
75001	Ahoskie	NC	W-A1	36,480.	64 74									09	10	11	12	13	14	15	16	
75002	Ahoskie	NC	W-A2	15,360.	64 74									09	10	11	12	13	14	15	16	
75003	Ahoskie	NC	W-A3	2,368.	64 74									09	10	11	12	13	14	15	16	
75004	Ahoskie	NC	W-A4	1,664.	64 74									09	10	11	12	13	14	15	16	

^{1/} For description of references 1-17, see page 1 and table 1.

^{2/} (a) area changed from 63,170 acres (1-1-1967).

(b) area changed from 10,050 acres (1-1-1967).

(c) area changed from 22,656 acres (1-1-1967).

(d) = total drainage area.

(e) = total study area.

^{3/} B = year (19--) record began; E = year (19--) record ended.

^{4/} Reference in which additional or revised watershed information has been included.

Continuing Watersheds

For current watersheds for which the descriptive information has been published in references 1 and 4-16, the tabular data begin at the top of the first page. On each page at the bottom outside corner is a sequential page number and the decimal paging system is shown at the bottom center.

The geographic location associated with each study, usually a city and State, and the local name and number of the watershed are recorded at the top of the first page for each watershed. This identification is followed by detailed information on the geographic location, including latitude and longitude when available, and the size of the watershed.

In the space to the right of the first table title, MONTHLY PRECIPITATION AND RUNOFF (inches), the location and watershed number (or designation) are given.

In the table for the current calendar year, the precipitation (P) in inches is given in the monthly columns and the yearly total in the last column, headed annual. In the line below, the corresponding runoff (Q) in inches is similarly given for each month and the total for the year. For some watersheds, data are included for years previous to the current year. Underneath, in two lines, are given the (P) and (Q) station average amounts (STA AV) by months, with average annual total for the period of record.

In the second table, entitled ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS, data are also given for the calendar year listed in the first column. Under the maximum discharge heading, the date column shows the month and day that the instantaneous peak in inches per hour occurred. In computing this rate, corrections were made, where needed, for any significant pondage above the runoff-measuring device. Under the maximum volume heading, the date refers to the month and day on which the interval began; for example, if the interval began August 30 at 2359, the entry in the date column would be 8-30. The depths for 1 hour to 8 days are the annual maximum values recorded, without regard to entire clock hours or days; thus, if the 6-hour interval began at 1332, the interval would end exactly 6 hours later at 1932. The volume given is in inches of average depth over the watershed for each of the seven selected time intervals (1, 2, 6, and 12 hours and 1, 2, and 8 days). In the last section of the table, the maximum discharges and depths for the various periods are given under MAXIMUMS FOR PERIOD OF RECORD.

Notes and footnotes below the first two tables include (1) a general statement as to watershed conditions and other physical changes for the period covered; (2) location (publication) where the most recent map may be found; (3) length of precipitation and runoff records; and (4) location of the nearest longtime National Weather Service precipitation station together with the record length.

For some watersheds, tables of daily air temperature (maximum and minimum in degrees Fahrenheit), daily precipitation (inches), and mean daily discharge (cfs) are next, with explanation of the data in footnotes at the end of each table. The multiplier to convert mean daily discharge in cubic feet per second to inches per day is given as the first note following the mean daily discharge table. Cooperating agencies are identified at the bottom of the first page for each watershed just above the index page number.

If no daily tables are given, the tabular data for selected runoff events begin in the remaining space on the first page and are carried forward on continuation sheets (or pages) until completed. In

general, the selected runoff events were those in which runoff was produced by a relatively uniform rainfall excess of short duration. The information for each event includes tabulation of (1) antecedent rainfall and runoff that occurred on the day of the event prior to the beginning of the event; (2) rainfall intensities and accumulated amounts for the event; (3) runoff rates and accumulated amounts for the event; and (4) specific watershed conditions at the time of the event.

Simple graphs of rainfall and runoff rates for all events follow the tabular data. Runoff rates expressed in both cubic feet per second (CFS) and inches per hour (IN/HR) are shown on the graphs. Some very low runoff rates expressed in IN/HR are given in the "E" format, such as 7.25 E-4, which is equal to 0.000725 IN/HR.

Maps follow the graphs unless previously published in references 3-16 or unless shown herein on the map of another watershed.

In the Notes at the bottom of the first page for runoff events, the multiplier to convert runoff rates in cubic feet per second to inches per hour is given. The notes on continuation pages contain the statement on the multiplier and similar explanations of the data on each page.

New Watersheds

For the watersheds installed in recent years and not reported previously (see table 3), the presentation begins with the watershed description in the upper part of the first page. The explanations and definitions on which the description is based are given in the next section.

The first line, centered at the top of the sheet, indicates the project location, which is the nearest city or town, and the number or name of the watershed used locally. The descriptive material is then given under the 12 major topics listed generally down the left side of the sheet: Location, Area, Slopes, Soils, Erosion, Land Capability, Watershed Geology, Surface Drainage, Character of Flow, Instrumentation, Watershed Conditions, and Generally Represents.

After this description, the tabular data are summarized in the first two tables and notes are included as previously described for Continuing Watersheds. The tabular data for daily air temperature, precipitation, and discharge, if presented, precede the tabular data for SELECTED RUNOFF EVENTS. The rest of the material of this series for the particular watershed follows in the same order as previously indicated.

WATERSHED DESCRIPTIONS

The following definitions and explanations were used in describing watershed location, watershed characteristics, instrumentation, land management, and recommended area of application of the hydrologic data.

LOCATION gives county and State, distance and direction of the runoff gaging station from the nearest city or town, and the major river basin in which it lies. When two or more basins are involved, the tributary or subbasin is mentioned first, followed by the major basin.

AREA of watershed is given in acres if less than 640 acres and in both acres and square miles if more than 1 square mile. If areas are revised, additional values are included with notes on date of change.

SLOPES are given in terms of the ranges commonly used in survey work in the locality. The percentages of the watershed lying in each slope class are listed. As an example, 8% is in 0-2% class means that 8 percent of the watershed area has slopes ranging from 0 to 2 percent.

SOILS are described briefly, according to definitions from the U.S. Department of Agriculture "Soil Survey Manual," Agriculture Handbook 18, published in 1951. Soil descriptions are given for the new watersheds. Soil-type name consists of the soil series plus the textural class, determined primarily by the texture of the upper part of the soil profile.

Soil texture refers to the relative proportions of the various size groups (or separates) of individual soil grains in a mass of soil. Specifically it refers to the proportions of clay, silt, and sand less than 2 mm in diameter. The various classes of texture in order of increasing percentages of the smaller size groups are (1) sand, (2) loamy sand, (3) sandy loam, (4) loam, (5) silt loam, (6) silt, (7) sandy clay loam, (8) clay loam, (9) silty clay loam, (10) sandy clay, (11) silty clay, and (12) clay. In some of the descriptions the broader classification of coarse, moderately coarse, medium, moderately fine, and fine has been used--the coarse soils are the sands and the fine soils the clays.

Soil structure refers to the aggregation of primary soil particles into compound particles, or clusters of primary particles, that are separated from adjoining aggregates by surfaces of weakness. Structure grade, or the durability of the aggregates when subjected to disturbance, is described as structureless, weak, moderate, or strong. For some soils the structureless grade is described as massive, if coherent, or single grain, if noncoherent. The size of the aggregates is reported as very fine, fine, medium, coarse, or very coarse. Structure shape is given as being platy, prismatic, columnar, angular blocky, subangular blocky, granular, or crumb.

Permeability is the quality of a soil that enables it to transmit water or air. This quality is indicated by the terms very slow, slow, moderately slow, moderate, moderately rapid, rapid, or very rapid.

Internal soil drainage is the quality of a soil that permits the downward flow of excess water through it. Internal drainage is reflected in the frequency and duration of periods of saturation with water. It is determined by the texture, structure, and other characteristics of the soil profile and of underlying layers and by the height of the water table, either permanent or perched, in relation to the water added to the soil. Internal drainage is described as none, very slow, slow, medium, rapid, or very rapid.

Soils may be grouped into soil drainage classes, based on observations and inferences used to obtain classes of runoff, soil permeability, and internal soil drainage. These classes are given in some soils descriptions to identify internal drainage. They are very poorly drained, poorly drained, imperfectly or somewhat poorly drained, moderately well drained, well drained, somewhat excessively drained, or excessively drained.

EROSION conditions on the watershed are described according to the following classification for water and wind erosion, also briefed from Agriculture Handbook 18. The percentage of the watershed in the following erosion classes is given.

Class 1.--The soil has a few rills or places with thin A horizons that give evidence of accelerated erosion, but not to an extent to alter greatly the thickness and character of the A horizon. Except for

soils having very thin A horizons (less than 8 inches), the surface soil consists entirely of A horizon throughout nearly all the delineated areas. Up to about 25 percent of the original A horizon, or original plowed layer in soils with thin A horizons, has been removed from most of the area. This class also includes the areas with no erosion.

Class 2.--The soil has been eroded to the extent that ordinary tillage implements reach through the remaining A horizon or well below the depth of the original plowed layer in soils with thin A horizons. Generally the plowed layer consists of a mixture of the original A horizon and the underlying horizons. Mapped areas of eroded soil usually have patches in which the plowed layer consists entirely of the original A horizon and others in which it consists entirely of underlying horizons. Shallow gullies may be present. Approximately 25 to 75 percent of the original A horizon or surface soil may have been lost from most of the area.

Class 3.--The soil has been eroded to the extent that all or practically all the original surface soil, or A horizon, has been removed. The plowed layer consists essentially of materials from the B or other underlying horizons. Patches in which the plowed layer is a mixture of the original A horizon and the B horizon, or other underlying horizons, may be included within mapped areas. Shallow gullies, or a few deep ones, are common in some soil types. More than about 75 percent of the original surface soil, or A horizon, and commonly part or all the B horizon, or other underlying horizons, have been lost from most of the area.

Class 4.--The land has been eroded until it has an intricate pattern of moderately deep or deep gullies. Soil profiles have been destroyed except in small areas between the gullies. Such land is not useful for crops in its present condition. Reclamation for crop production or for improved pasture is difficult, but may be practicable if other characteristics of the soil are favorable and erosion can be controlled.

Class +.--Recent alluvial and colluvial deposition.

LAND CAPABILITY is given as classified by Klingebiel and Montgomery in U.S. Department of Agriculture "Land-Capability Classification," Agriculture Handbook 210, published in 1961. The classification expresses the suitability of land for use without deterioration. The eight land-capability classes are distinguished according to the risk of land damage or difficulty of land use. Classes I-IV are suitable for cultivation and other uses, whereas classes V-VIII are not suitable for cultivation.

Class I.--Very good land for cultivation; nearly level and productive; not subject to erosion; needs only ordinary good farming methods.

Class II.--Good land for cultivation; mostly gently sloping; not more than moderately subject to erosion; some land may be rather wet; can be farmed safely with easily applied practices.

Class III.--Moderately good land for cultivation; mostly moderately sloping; some areas too wet or too dry; can be farmed safely with practical conservation measures, carefully applied; usually a combination of two or more measures is needed.

Class IV.--Fairly good land, suitable for occasional cultivation; generally strongly sloping; often shallow or very sandy; often found in dry climate.

Class V.--Land very well suited for grazing or forestry; requires good range or woodland management.

Class VI.--Land well suited for grazing or forestry; steeply sloping land, or stony or shallow soil; eroded, droughty, or wet land; requires careful

management.

Class VII.--Land fairly well suited for grazing or forestry; severely limited in use by such factors as very steep slope, shallow or droughty soil, wetness, severe erosion, or excessive salinity; requires very careful management.

Class VIII.--Land not suitable for cultivation, grazing, or forestry; may be useful for wildlife, recreation, or protection of water supplies.

WATERSHED GEOLOGY information, when available, for new watersheds is reported here. The parts of each watershed occupied by various geological formations or series are briefly described, together with strike and dip of the strata, thickness, and relative position, when known. Faults, perched water tables, outcrops, if present, and other details relating to the movement of water within the drainage area or affecting the hydrology of the watershed are described.

SURFACE DRAINAGE refers to the ease with which excess water flows from the watershed area. The length of the principal waterway is the distance from the gaging station to the most remote point on the watershed boundary, measured along the flood plain of the watercourse.

CHARACTER OF FLOW describes the flow of the principal watercourse with respect to permanence and space. The following definitions are from Meinzer's "Outline of Ground-Water Hydrology," U.S. Geological Survey Water-Supply Paper 494, published in 1923. As to permanence, streams may be divided into perennial, intermittent, and ephemeral streams.

A perennial stream, or stretch of a stream, flows continuously. Perennial streams are generally fed in part by springs, and their upper surfaces usually stand lower than the water table in the localities through which they flow.

Intermittent streams may be divided, with respect to their water source, into spring-fed intermittent streams and surface-fed intermittent streams. They also flow in direct response to precipitation.

A spring-fed intermittent stream, or stretch of a stream, flows only at certain times when it receives water from springs. The intermittent character of streams of this type is generally caused by fluctuations of the water table, whereby the stream channels stand part of the time below and part of the time above the water table. This is the ordinary type of intermittent stream.

A surface-fed intermittent stream, or stretch of a stream, flows during protracted periods when it receives water from some surface source, generally the gradual and long-continued melting of snow in a mountainous or other cold tributary area. The term may be arbitrarily restricted to streams or stretches of streams that flow continuously during periods of at least 1 month.

An ephemeral stream, or stretch of a stream, flows only in direct response to precipitation. It receives no water from springs and no long-continued supply from melting snow or other surface source. Its stream channel is at all times above the water table. The term may be arbitrarily restricted to streams or stretches of streams that do not flow continuously for as long as 1 month.

With respect to continuity in space, streams may be divided into continuous and interrupted streams. An interrupted stream contains (1) perennial stretches with intervening, intermittent, or ephemeral stretches or (2) intermittent stretches with intervening ephemeral stretches. These two classes of interrupted streams are designated, respectively, perennial interrupted streams and intermittent interrupted streams. A continuous stream does not have interruptions in space. It may be perennial,

intermittent, or ephemeral, but it does not habitually have wet and dry stretches.

INSTRUMENTATION describes the type of runoff control or measuring device, number and type of precipitation gages, type of charts used, and snow courses, if employed.

WATERSHED CONDITIONS describe the general use and farm, forest, or range practices before the period of record and the conservation measures, crops, yields, and general cultural operations and practices during the period of record. Rotation crops are listed in the order grown. Operations are described with commonly used agricultural terms, and only those that appear to have a significant relationship to the hydrology of the watershed are mentioned.

GENERALLY REPRESENTS gives the broad area of application for which the data of the specific watershed are recommended. The land resource areas named are those delineated on the map titled "Location of Experimental Agricultural Watersheds of the Agricultural Research Service," on pages 20 and 21. Solid circles show the approximate locations of the continuing or new watersheds; open circles show approximate locations of the discontinued studies. For a few studies the circles indicate the locations of the project headquarters instead of the watershed locations. A larger index map with more detail is included in reference 4.

For some studies there is an apparent contradiction between the watershed location on the maps and the descriptive information under Generally Represents. This is caused by the small scale of maps; it is difficult to show many small local variations in boundaries of the land resources areas. The descriptive statements, instead of the map location, should be the guide to the application of the data.

STANDARD SYMBOLS FOR TABULAR DATA

The following capital letters have been used as standard symbols throughout this publication to designate specific items or meanings:

<u>Symbol</u>	<u>Meaning</u>
E	- value is estimated or partially estimated.
H	- precipitation in form of hail.
L	- precipitation in form of sleet or freezing rain.
M	- mixed precipitation in form of rain, snow, and sleet.
N	- precipitation in form of rain and snow.
NR	- when used in place of value, "no record."
P	- monthly or annual precipitation in inches.
Q	- monthly or annual runoff in inches.
RG	- rain gage, generally followed by gage number.
S	- precipitation in form of snow.
STA AV (or AVG)	- station average for period of record.
T	- trace, indicates that the value is not large enough to round to the lowest significant digit. In some arrays a trace value is indicated by all zeros, with more than one zero located to the right of the decimal.
Z	- indicates an accurately measured total for a series of days that has been equally divided among coded days.

Time-of-day symbols or designations a, p, m, and n used in previous publications through 1961 have been discontinued, and military time (0001 through 2400) has been substituted in publications since then. Unless stated otherwise, time used in tables is

eastern, central, mountain, or Pacific standard, whichever applies to the given location.

PERSONNEL RESPONSIBLE FOR DATA PREPARATION

At each research location many individuals have contributed to the planning and establishment of the watershed and the collection, compilation, and analysis of the data. Some of those who were directly responsible for preparing the data and information for this report are--

	Location
R. B. Slack, T. K. Woody, P. R. Yates.....	08
A. P. Barnett, A. W. Thomas.....	10
R. M. Weaver.....	16
L. A. Kramer, M. Mazzocco.....	25, 71
C. A. Salrin.....	26
F. R. Crow, W. R. Gwinn.....	37
C. W. Richardson, D. A. Wright.....	42
A. J. Bowie, C. K. Mutchler.....	62
V. A. Ferreira, F. Lopez.....	63, 64
R. DeAngelis, D. Grant.....	67
R. L. Engleman.....	68
D. E. Gregory, J. W. Naney, A. D. Nicks, R. R. Schoff, N. H. Welch.....	69

ADDITIONAL PUBLICATIONS BY LOCATION

In references 1 and 4-16 (see pp. 1 and 2), citations to other publications, which present watershed data and interpretations of results in various journals, bulletins, and periodicals, are given at the end of the introduction for many of the locations. Following is a listing, by location number, of publications (issued in 1973 or otherwise noted) that resulted from related work through 1973. Several publications pertaining to the overall program of hydrology that could not be tied to a specific location are listed at the end under General References.

16. Klingerstown, Pennsylvania

Carr, J. C.

A system for collection, preparation, translation, and computer reduction of digital hydrologic data. U.S. Dept. Agr. ARS-NE-18, 58 pp., illus.

Gburek, W. J., and Overton, D. E.

Subcritical kinematic flow in a stable stream. Amer. Soc. Civ. Engin. Proc., Hydraul. Div. Jour. 99 (HY 9): 1433-1447, illus.

25. McCredie, Missouri

Whitaker, F. D., Heinemann, H. G., Wischmeier, W. H.

Chemical weed controls affect runoff, erosion and corn yields. Jour. Soil and Water Conserv. 28 (4): 174-176, illus.

26. Coshocton, Ohio

Edwards, W. M., McGuinness, J. L., Van Doren, D. M., Jr., and others.

Effects of long-term management on physical and chemical properties of the Coshocton watershed soils. Soil Sci. Soc. Amer. Proc. 37 (6): 927-930.

Tsong, C. W., and McGuinness, J. L.

Reciprocal distance squared method, a computer technique for estimating areal precipitation. U.S. Dept. Agr. ARS-NC-8, 29 pp.

37. Stillwater, Oklahoma

Gwinn, W. R.

Estimating annual water yield from Oklahoma watersheds for drought periods. Indus. Waste and Advanced Water Conf., Okla. State Univ., Stillwater, Proc. 1973, 17 pp., illus.

42. Riesel, Texas

Richardson, C. W.

Runoff, erosion, and tillage efficiency on graded-furrow and terraced watersheds. Jour. Soil and Water Conserv. 28 (4): 162-164, illus.

_____ and Ritchie, J. T.

Soil water balance for small watersheds. Amer. Soc. Agr. Engin. Trans. 16 (1): 72-77, illus.

Williams, J. R.

Storage depletion flood routing approach to hydrograph computation. Amer. Soc. Agr. Engin. Trans. 16 (1): 82-84, illus.

_____ and Hann, R. W., Jr.

HYMO: Problem-oriented computer language for hydrologic modeling. U.S. Dept. Agr. ARS-S-9, 76 pp., illus.

62. Oxford, Mississippi

Dendy, F. E.

Traversing-slot runoff sampler for small watersheds. U.S. Dept. Agr. ARS-S-15, 14 pp., illus.

63. Tombstone, Arizona

Gwinn, W. R.

Laboratory calibration of the walnut gulch supercritical flow-measuring flume. In Studies and Rpts. in Hydrol., Koblenz, West Germany, Proc. 1973 (13): 310-318, illus.

Lane, L. J., and Osborn, H. B.

Hypotheses on the seasonal distribution of thunderstorm rainfall in southeastern Arizona floods, droughts, and decision making with inadequate hydrologic data. 2d Internatl. Symp. in Hydrol., Fort Collins, Colo., Proc. 1972, pp. 83-84.

Osborn, H. B., and Laursen, E. M.

Thunderstorm runoff in southeastern Arizona. Amer. Soc. Civ. Engin. Proc., Hydraul. Div. Jour. 99 (HY 7): 1129-1145, illus.

_____ and Renard, K. G.

Management of ephemeral stream channels. Amer. Soc. Civ. Engin. Proc., Irrig. and Drain. Div. Jour. 1973 (Sept.), pp. 207-214, illus.

Simanton, J. R., and Osborn, H. B.

Use of stock ponds for hydrologic research on southwest rangelands. In Hydrol. and Water Resources in Ariz. and the Southwest. Joint Mtg.--Hydrol. Sect., Ariz. Acad. Sci., and Ariz. Sect., Amer. Water Resources Assoc., Tucson, Proc. 1973 (3): 2-7.

_____ Renard, K. G., and Sutter, N. G.

Procedures for identifying parameters affecting storm runoff volumes in a semiarid environment. U.S. Dept. Agr. ARS-W-1, 12 pp., illus.

Smith, R. E., and Chery, D. L., Jr.

Rainfall excess model from soil water flow theory. Amer. Soc. Civ. Engin. Proc., Hydraul. Div. Jour. 99 (HY 9): 1337-1351.

_____ and Schreiber, H. A.

Point processes of seasonal thunderstorm rainfall. 1. Distribution of rainfall events. Water Resources Res. 9 (4): 871-884, illus.

64. Santa Rosa, New Mexico

Mills, W. C., and Osborn, H. B.

Stationarity in thunderstorm rainfall in the southwest. In Hydrol. and Water Resources in Ariz. and the Southwest. Joint Mtg.--Hydrol. Sect., Ariz. Acad. Sci., and Ariz. Sect., Amer. Water Resources Assoc., Tucson, Proc. 1973 (3): 26-31, illus.

65. Newell, South Dakota

Hanson, C. L., Heinemann, H. G., Kuhlman, A. R., and Neumberger, J. W.

Sediment yields from small rangeland watersheds in western South Dakota. Jour. Range Managt. 26 (3): 215-219, illus.

67. North Danville, Vermont

Bornstein, J., Preston, H. A., Winant, W. M., and Benoit, G. R.

Automated flow-recording system for field drainage monitoring--direct data compilation of surface and subsurface drain flow. Jour. Agr. Engin. Res. 18: 31-35, illus.

68. Reynolds, Idaho

Cox, L. M., and Zuzel, J. F.

Forecasting runoff from universal surface gage snowmelt measurements. Jour. Soil and Water Conserv. 28 (3): 131-134, illus.

Dylla, A. S., and Cox, L. M.

An economical hydraulic weighing evapotranspiration tank. Instrument News Sect., Agr. Engin. Trans. 16 (12), 294-295.

Johnson, C. W., and McArthur, R. P.

Winter storm and flood analyses, northwest interior. In Hydraul. Engin. and Environ., Amer. Soc. Civ. Engin., Hydraul. Div., 21st Ann. Spec. Conf., Bozeman, Mont., Proc. 1973, pp. 359-369, illus.

Rawls, W. J., Zuzel, J. F., and Schumaker, G. A.

Soil moisture trends on sagebrush rangelands. Jour. Soil and Water Conserv. 28 (6): 270-272, illus.

Stephenson, G. R.

Stock-water development from shallow aquifer systems on southwest Idaho rangeland. Water-Animal Relations Symp., Twin Falls, Proc. 1973, 16 pp., illus.

_____ Freeze, R. A., and Jeppson, R. W.

Mathematical simulation of subsurface flow contribution to snowmelt runoff. Geol. Soc. Amer. Mtg., Reynolds Creek Watershed, Idaho. Water Resources Res. 10 (2): 283-294.

69. Chickasha, Oklahoma

Blanchard, B. J., and Leamer, R. W.

Spectral reflectance of water containing suspended sediment. In Remote Sensing and Water Res. Managt., Amer. Water Res. Assoc.

Symp., Urbana, Ill., Proc. 17: 339-347, illus.

71. Treynor, Iowa

Schuman, G. E., Burwell, R. E., Piest, R. F., and Spomer, R. G.

Nitrogen losses in surface runoff from agricultural watersheds on Missouri valley loess. Jour. Environ. Quality 2 (2): 299-302.

_____ Spomer, R. G., and Piest, R. F.

Phosphorus losses from four agricultural watersheds on Missouri valley loess. Soil Sci. Soc. Amer. Proc. 37 (3): 424-427.

Spomer, R. G., Saxton, K. E., and Heinemann, H. G.

Water yield and erosion response to land management. Jour. Soil and Water Conserv. 28 (4): 168-171, illus.

_____ Shrader, W. D., Rosenberry, P. E., and

Miller, E. L.

Level terraces with stabilized backslopes on loessial cropland in the Missouri valley: A cost-effectiveness study. Jour. Soil and Water Conserv. 28 (3): 127-131, illus.

74. Tifton, Georgia

Jackson, W. A., Asmussen, L. E., Hauser, E. W., and White, A. W.

Nitrate in surface and subsurface flow from a small agricultural watershed. Jour. Environ. Quality 2 (4): 480-482, illus.

McCuen, R. H., and Asmussen, L. E.

Estimating the effect of heat storage on evaporation rates. Hydrol. Sci. Bul. 18 (2): 191-196, illus.

Rawls, W. J., and Asmussen, L. E.

Neutron probe field calibration for soils in the Georgia coastal plain. Soil Sci. 116 (4): 262-265, illus.

_____ and Asmussen, L. E.

Subsurface flow in Georgia coastal plain. Amer. Soc. Civ. Engin. Proc., Irrig. and Drain. Div. Jour. 99 (IR 3): 375-385, illus.

General References

Amerman, C. R.

Hydrology and soil science. In Field Soil Water Regime, Soil Sci. Soc. Amer. Proc. 5 (9): 167-180, illus.

Apmann, R. P.

Estimating discharge from superelevation in bends. Amer. Soc. Civ. Engin. Proc., Hydraul. Div. Jour. 99 (HY 1): 65-79, illus.

Benoit, G. R.

Effect of freeze-thaw cycles on aggregate stability and hydraulic conductivity of three soil aggregate sizes. Soil Sci. Soc. Amer. Proc. 37 (1): 3-5, illus.

Brakensiek, D. L.

Response to review by R. V. Ruhe on "Hydrologic Data for Experimental Agricultural Watersheds in the U.S., 1965," U.S. Dept. Agr. Misc. Pub. 1216. In Amer. Geophys. Union Trans. 54 (7): 719.

Cary, J. W.

Soil water flowmeters with thermocouple

- outputs. Soil Sci. Soc. Amer. Proc. 37 (2): 176-181, illus.
- Cooley, K. R., and Myers, L. C.
Evaporation reduction with reflective covers. Amer. Soc. Civ. Engin. Proc., Irrig. and Drain. Div. Jour. 99 (IR 3): 353-363, illus.
- DeCoursey, D. G.
Application of discriminant analysis in design review. Water Resources Res. 9 (1): 93-102, illus.
-
- Erosion and sedimentation: State-of-the-art in the southern region. In Plants, Animals and Man, 28th Ann. Mtg., Soil Conserv. Soc. Amer., Hot Springs, Ark., Proc. 1973, pp. 253-258.
- England, C. B.
Watershed models: Tools in planning land management for water and pollution control. Jour. Soil and Water Conserv. 28 (1): 36-38, illus.
- Follett, R. R., Reichman, G. A., Doering, E. J., and Benz, L. C.
A nomograph for estimating evapotranspiration. Jour. Soil and Water Conserv. 28 (2): 90-92, illus.
- Frere, M. H.
Adsorption and transport of agricultural chemicals in watersheds. Amer. Soc. Agr. Engin. Trans. 16 (3): 569-572, 577, illus.
- Glymph, L. M.
Sedimentation of reservoirs. In Man-Made Lakes: Their Problems and Environmental Effects. Geophys. Monog. Ser. 17: 324-348.
- Hershfield, D. M.
On the probability of extreme rainfall events. Amer. Met. Soc. 54 (10): 1013-1018, illus.
- Neff, E. L.
Water storage capacity of contour furrows in Montana. Jour. Range Mangt. 26 (4): 298-301, illus.
- Onstad, C. A., Olson, T. C., and Stone, L. R.
An infiltration model tested with monolith moisture measurements. Soil Sci. 116 (1): 13-17, illus.
- Saulmon, R. W.
Snowdrift management can increase water-harvesting yields. Jour. Soil and Water Conserv. 28 (3): 118-121, illus.
- Woolhiser, D. A.
Hydrologic and watershed modeling--state of the art. Amer. Soc. Agr. Engin. Trans. 16 (3): 553-559, illus.
-
- _____ and Schulz, E. F.
Large material models in watershed hydrology research. Internatl. Symp. on River Mech., Asian Inst. Technol., Bangkok, Thailand, Proc. 1973, pp. 63-74, illus.

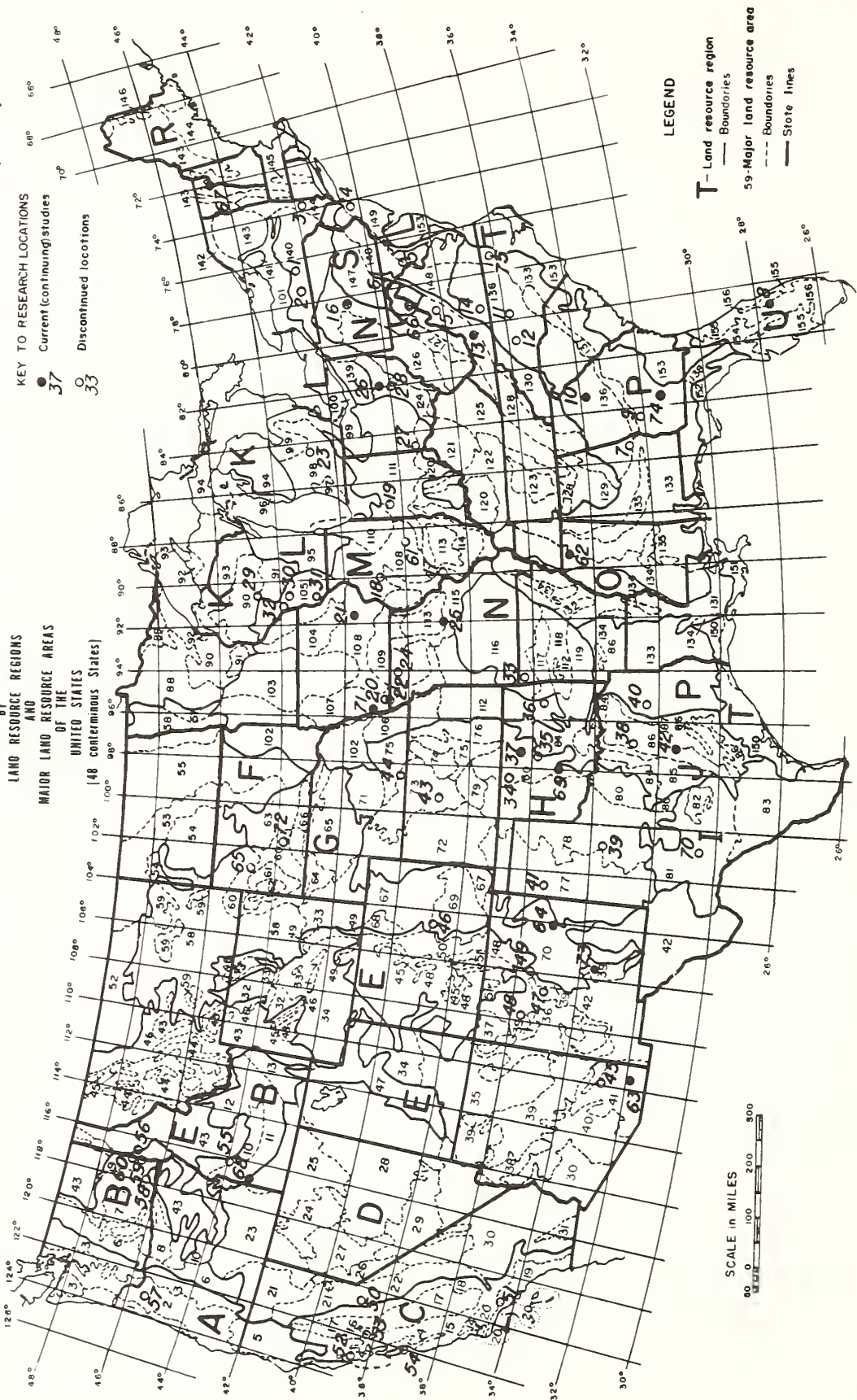
UNITED STATES INDEX MAP AND RELATED DATA

[Pages 20 through 22]

LOCATION OF EXPERIMENTAL AGRICULTURAL WATERSHEDS OF THE AGRICULTURAL RESEARCH SERVICE (1973)

BY
LAND RESOURCE REGIONS
AND
MAJOR LAND RESOURCE AREAS
OF THE
UNITED STATES
(48 contiguous States)

KEY TO RESEARCH LOCATIONS
● 37 Current (continuing) studies
○ 33 Discontinued locations



LEGEND

T Land resource region
— Boundaries
--- Major land resource area
--- Boundaries
— State lines

SCALE in MILES
0 100 200 300

U. S. Department of Agriculture

Land Resource Area delineations as determined by the Soil Conservation Service

LEGEND FOR LAND RESOURCE REGIONS AND MAJOR LAND RESOURCE AREAS (of the 48 conterminous States)

A	NORTHWESTERN FOREST, FORAGE, AND SPECIALTY CROP REGION 1 Northern Pacific Coast Range and Valleys 2 Willamette and Puget Sound Valleys 3 Olympic and Western Slope Cascade Mountains 4 California Coastal Redwood Belt 5 Snakeyou-Trinity Area	F	NORTHERN GREAT PLAINS SPRING WHEAT REGION 52 Brown Glaciated Plain 53 Dark Brown Glaciated Plain 54 Rolling Soft Shale Plains 55 Black Glaciated Plains 56 Red River Valley of the North 57 Western Minnesota Forest-Prairie Transition	N	EAST AND CENTRAL GENERAL FARMING AND FOREST REGION 105 Northern Mississippi Valley Loess Hills 106 Nebraska and Kansas Loess-Drift Hills 107 Iowa and Missouri Deep Loess Hills 108 Illinois and Iowa Deep Loess Hills 109 Iowa and Missouri Heavy Till Plain 110 Northern Illinois and Indiana Heavy Till Plain 111 Indiana and Ohio Till Plain 112 Cherokee Prairies 113 Central Claypan Areas 114 Southern Illinois and Indiana Thin Loess and Till Plain 115 Central Mississippi Valley Wooded Slopes
B	NORTHWESTERN WHEAT AND RANGE REGION 6 Eastern Slope Cascade Mountains 7 Columbia Basin 8 Columbia Plateau 9 Palouse and Nez-Perce Prairies 10 Upper Snake River Lava Plains and Hills 11 Snake River Plains 12 Lost River Valleys and Mountains 13 Eastern Idaho Plateaus	G	WESTERN GREAT PLAINS RANGE AND IRRIGATED REGION 58 Northern Rolling High Plains 59 Northern Smooth High Plains 60 Pierre Shale Plains and Badlands 61 Black Hills 62 Black Hills 63 Rolling Pierre Shale Plains 64 Mixed Sandy and Silty Tableland 65 Nebraska Sand Hills 66 Dakota-Nebraska Eroded Tableland 67 Central High Plains 68 Irrigated Upper Platte River Valley 69 Upper Arkansas Valley Rolling Plains 70 Pecos-Canadian Plains and Valleys	O	MISSISSIPPI DELTA COTTON AND FEED GRAINS REGION 131 Southern Mississippi Valley Alluvium 132 Eastern Arkansas Prairies 134 (See P below)
C	CALIFORNIA SUBTROPICAL FRUIT, TRUCK, AND SPECIALTY CROP REGION 14 Central California Valleys 15 Central California Coast Range 16 California Delta 17 Sacramento and San Joaquin Valleys 18 Sierra Nevada Foothills 19 Southern California Coastal Plain 20 Southern California Mountains	H	CENTRAL GREAT PLAINS WINTER WHEAT AND RANGE REGION 71 Central Nebraska Loess Hills 72 Central High Tableland 73 Rolling Plains and Breaks 74 Central Kansas Sandstone Hills 75 Central Loess Plains 76 Bluestem Hills 77 Southern High Plains 78 Central Rolling Red Plains 79 Great Bend Sand Plains 80 Central Rolling Red Prairies	P	SOUTH ATLANTIC AND GULF SLOPE CASH CROP, FOREST, AND LIVESTOCK REGION 86 (See J Above) 133 Southern Coastal Plain 134 Southern Mississippi Valley Silty Uplands 135 Alabama and Mississippi Blackland Prairies 136 Southern Piedmont 137 Carolina and Georgia Sandhills 138 North Central Florida Ridge
D	WESTERN RANGE AND IRRIGATED REGION 21 Klamath and Shasta Valleys and Basins 22 Sierra Nevada Range 23 Malheur High Plateau 24 Humboldt Area 25 Owyhee High Plateau 26 Carson Basin and Mountains 27 Fallon-Lovelock Area 28 Great Salt Lake Area 29 Southern Nevada Basin and Range 30 Sonoran Basin and Range 31 Imperial Valley 32 Northern Intermountain Desertic Basins 33 Semiarid Rocky Mountains 34 Central Desertic Basins, Mountains and Plateaus 35 Colorado and Green Rivers Plateaus 36 New Mexico and Arizona Plateaus and Mesas 37 San Juan River Valley Mesas and Plateaus 38 Black, Hualapai, and Cerbat Mountains 39 Arizona and New Mexico Mountains 40 Central Arizona Basin and Range 41 Southeastern Arizona Basin and Range 42 Southern Desertic Basins, Plains and Mountains	I	SOUTHWESTERN PLATEAUS AND PLAINS, RANGE AND COTTON REGION 81 Edwards Plateau 82 Texas Central Basin 83 Rio Grande Plain 84 Groa Timbera 85 Grand Prairies 86 Texas Blackland Prairie 87 Texas Claypan Area	R	NORTHEASTERN FORAGE AND FOREST REGION 139 Eastern Ohio Till Plain 140 Glaciated Allegheny Plateau and Catskill Mountains 141 Tughill Plateau 142 St. Lawrence-Champlain Plain 143 Northeastern Mountains 144 New England and Eastern New York Upland 145 Connecticut Valley 146 Aroostook Area
E	ROCKY MOUNTAIN RANGE AND FOREST REGION 43 Northern Rocky Mountains 44 Northern Rocky Mountain Valleys 45 Alpine Meadows and Ruckland 46 Northern Rocky Mountain Foothills 47 Wasatch and Uinta Mountains 48 Southern Rocky Mountains 49 Southern Rocky Mountain Foothills 50 San Luis Valley 51 High Intermountain Valleys	J	SOUTHWESTERN PRAIRIES, COTTON, AND FORAGE REGION 84 Groa Timbera 85 Grand Prairies 86 Texas Blackland Prairie 87 Texas Claypan Area	S	NORTHERN ATLANTIC SLOPE TRUCK, FRUIT, AND POULTRY REGION 147 Northern Appalachian Ridges and Valleys 148 Northern Piedmont 149 Northern Coastal Plain
		K	NORTHERN LAKE STATES FOREST AND FORAGE REGION 88 Northern Minnesota Swamps and Lakes 89 Minnesota Rockland Hills 90 Central Wisconsin and Minnesota Thin Loess and Till 91 Wisconsin and Minnesota Sandy Outwash 92 Superior Lake Plain 93 Northern Michigan and Wisconsin Stony, Sandy and Rocky Plains and Hills 94 Northern Michigan Sandy Drift	T	ATLANTIC AND GULF COAST LOWLANDS, FOREST AND TRUCK CROP REGION 150 Gulf Coast Prairies 151 Gulf Coast Marsh 152 Gulf Coast Flatwoods 153 Atlantic Coast Flatwoods
		L	LAKE STATES FRUIT, TRUCK, AND DAIRY REGION 95 Southeastern Wisconsin Drift Plain 96 Western Michigan Fruit Belt 97 Southwestern Michigan Fruit and Truck Belt 98 Southern Michigan Drift Plain 99 Erie-Huron Lake Plain 100 Erie Fruit and Truck Area 101 Ontario-Mohawk Plain	U	FLORIDA SUBTROPICAL FRUIT, TRUCK CROP, AND RANGE REGION 154 South Central Florida Ridge 155 Southern Florida Flatwoods 156 Florida Everglades and Associated Areas
		M	CENTRAL FEED GRAINS AND LIVESTOCK REGION 102 Loess, Till, and Sandy Prairies 103 Central Iowa and Minnesota Till Prairies 104 Eastern Iowa and Minnesota Till Prairies		

Compiled by Morris E. Austin
Information from SCS, State, and other Offices

Table 3.--Experimental agricultural watersheds, listed by State, locality, and location number, under study during 1973 and included in this publication

State	Locality	Assigned location number	Major land resource area ^{1/}	Watershed units	Events reported	Pages
Arizona.....	Tombstone.....	63	D-41	8	9	179-204
Florida.....	Vero Beach.....	08	U-55	3	0	24-29
Georgia.....	Watkinsville.....	10	P-136	1	1	30-32
Idaho.....	Reynolds.....	68	D-23, D-25	8	11	224-260
Iowa.....	Treynor.....	71	M-107	4	0	397-404
Mississippi....	Oxford.....	62	P-133, P-134	5	5	161-178
Missouri.....	McCredie.....	25	M-113	1	1	38-41
New Mexico.....	Santa Rosa.....	64	G-70	1	1	205-207
Ohio.....	Coshocton.....	26	N-124	6	10	42-63
Oklahoma.....	Chickasha.....	69	H-78, H-80, J-84	<u>2</u> /34	47	261-396
	Stillwater.....	37	H-80	2	4	64-73
Pennsylvania...	Klingerstown.....	16	S-147	1	1	33-37
Texas.....	Riesel (Waco).....	42	J-86	22	22	74-160
Vermont.....	North Danville.....	67	R-144	4	7	208-223

^{1/} See location map (p. 20) and legend (p. 21).

^{2/} Includes data for 1 new watershed, No. 515 (69028), Chickasha, Okla.

Table 4.--Watersheds, listed by State and locality, for which data were previously included but are not in this publication^{1/}

State	Locality	Major land resource area ^{2/}	Discontinued watershed units		
			Number	Record period (19--)	Assigned location and watershed number
North Carolina..	Ahoskie.....	P-133	4	64-74	75.001-75.004
Oklahoma.....	Stillwater.....	H-80	1	51-72	37.003
South Dakota....	Cottonwood.....	G-60	3	63-73	72.001,-002,-005
	Newell.....	G-60	6	58-73	65.002,-005,-007,-012,-014,-015
		G-59	1	58-73	65.013
Texas.....	Sonora.....	I-81	12	67-73	70.001-75.004 and 70.006-70.013
Virginia.....	Blacksburg.....	N-128	1	57	13.007
		N-130	1	57-80	13.008
		P-136	2	58-80	13.010,-011
		P-136	1	60-80	13.015

^{1/} For discontinued watershed studies prior to 1972, see tables in previous publications.

^{2/} See location map (p. 20) and legend (p. 21).

WATERSHED DATA BY LOCATION NUMBER
AND
DECIMAL PAGING

[8.002-1 TO 71.004-2, A TOTAL OF 381 DATA SHEETS]

For location by States and Land Resource Areas
and Regions, see U.S. Index Map, page 20.

VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-2

LOCATION: Okeechobee County, Florida. Runoff gaging site is about 3 mi. N. of City of Okeechobee on Cemetery Road. Taylor Creek empties into Lake Okeechobee. Lat. 27 deg. 17 min. 03 sec. N.; Long. 80 deg. 49 min. 21 sec. W.

AREA: 66880.00 acres 104.50 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						VERO BEACH, FLORIDA (TAYLOR CREEK)						WATERSHED W-2		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1973	P	3.50	1.69	3.02	1.27	5.35	7.81	9.32	6.06	4.29	3.58	1.09	1.56	48.54
	Q	0.301	0.377	0.314	0.128	0.140	0.789	2.714	1.710	1.316	1.047	0.252	0.075	9.161
STA AV	P	1.93	2.44	3.38	1.84	4.54	8.58	6.47	6.83	5.97	4.22	1.35	1.52	49.06
	Q	0.498	0.458	1.049	0.197	0.354	2.131	2.046	2.061	2.633	2.001	1.923	0.208	15.559

NOTES: Watershed conditions: 1973: Range & forest, 39%; improved pasture, 47%; cropland, 4%; miscellaneous, 10%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watershed in the United States, 1971, USDA Misc. Pub. 1383, p. 08.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 7 gages. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida.

1973 DAILY AIR TEMPERATURE (degrees F)						VERO BEACH, FLORIDA (TAYLOR CREEK)						WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min
1	88 67	78 70	78 53	80 64	82 55	92 68	92 72	87 73	86 75	90 67	83 67	77 54	
2	87 64	85 57	82 54	81 69	85 65	89 66	91 70	91 74	88 72	89 70	88 65	80 57	
3	85 63	67 41	84 60	89 73	89 65	89 72	89 72	89 74	88 71	88 72	86 64	79 64	
4	89 65	72 44	84 58	83 58	86 59	88 71	92 69	92 72	89 71	86 70	88 66	82 65	
5	87 63	78 45	82 63	77 53	88 53	91 67	93 71	93 73	89 72	90 72	89 66	81 63	
6	83 59	78 45	87 64	83 65	89 63	91 61	94 72	94 71	90 72	90 72	85 60	85 60	
7	84 55	78 46	88 69	88 66	85 68	80 70	94 71	89 71	92 75	90 72	83 59	72 55	
8	84 53	80 54	87 68	81 55	89 74	88 72	91 69	88 72	90 73	83 69	86 58	58 52	
9	62 52	82 50	85 64	80 58	89 69	90 69	90 72	93 70	93 73	89 69	87 61	65 37	
10	60 54	55 36	87 68	74 47	90 63	89 68	90 71	87 73	91 74	87 67	81 56	66 38	
11	58 52	50 34	86 62	72 46	93 63	92 67	89 74	93 72	88 71	86 65	76 56	58 34	
12	53 36	69 46	90 62	80 52	94 70	93 72	91 75	92 74	93 75	86 63	76 56	67 39	
13	57 35	76 55	90 62	82 57	92 65	93 70	86 73	90 73	95 74	85 68	79 57	75 54	
14	68 38	79 66	88 64	83 61	88 70	91 71	91 71	93 73	94 73	84 67	81 55	74 56	
15	66 46	79 46	88 67	77 53	86 64	92 72	91 72	93 71	94 73	83 67	82 59	80 62	
16	73 51	65 36	89 63	82 58	80 54	93 71	95 73	89 73	94 74	91 64	87 62	74 37	
17	78 53	64 40	71 47	81 60	82 57	94 73	94 72	90 72	88 73	90 70	86 64	59 30	
18	82 53	61 54	74 46	82 58	88 62	92 70	93 72	93 73	92 74	85 71	84 65	65 48	
19	82 53	68 47	81 46	84 59	90 61	91 70	90 73	92 74	93 73	84 72	87 62	77 62	
20	77 50	67 42	85 67	84 66	89 59	86 71	92 73	89 72	94 73	85 70	85 65	71 54	
21	79 70	71 43	84 49	83 65	91 61	85 73	89 72	85 65	93 74	85 71	87 61	63 32	
22	81 67	68 43	76 54	83 64	93 63	91 72	85 76	93 71	89 71	86 69	86 65	59 36	
23	70 61	62 44	76 52	87 56	93 67	86 72	91 75	89 71	84 70	84 64	85 60	72 54	
24	72 49	72 50	77 62	85 62	92 71	90 72	90 75	89 72	90 71	83 60	84 59	77 64	
25	76 55	79 58	81 67	88 69	92 70	90 73	93 73	91 71	93 71	84 59	85 60	77 63	
26	80 67	81 53	80 55	88 68	95 73	93 70	91 73	90 72	92 70	85 59	84 63	81 67	
27	79 66	73 48	74 54	86 53	93 78	91 73	92 73	91 73	88 71	88 60	85 71	83 65	
28	80 54	76 49	80 63	76 44	95 79	90 71	91 73	90 73	89 70	87 64	86 54	84 59	
29	59 34		78 69	83 50	97 77	94 71	90 73	88 72	86 70	87 46	66 52	83 58	
30	65 43		84 65	82 54	93 82	95 72	91 74	89 73	92 68	75 48	75 57	84 62	
31	74 62		85 71		95 71		90 75	86 75		82 71		84 61	
AV.	75 55	72 48	83 60	82 59	90 66	90 70	91 73	90 72	91 72	86 66	83 61	74 53	
MEAN	64.7	60.0	71.5	70.5	78.0	80.4	81.8	81.3	81.4	76.1	72.2	63.5	
STA AV	71 50	74 50	77 55	83 61	88 66	89 71	92 74	92 74	91 73	87 66	79 56	74 52	

NOTES: Temperature data from R-3, readings taken daily. STA AV period from July 1, 1956 through 1973.

1973	DAILY PRECIPITATION (inches)					VERO BEACH, FLORIDA (TAYLOR CREEK)					WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.01	0.79	0.23	0.03	0.0	0.95	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.83	0.03	0.63	0.0	0.0	0.0
3	0.02	0.32	0.0	0.0	0.0	0.0	0.0	0.01	0.17	0.01	0.0	0.0
4	0.0	0.0	0.0	0.05	0.10	0.07	0.0	0.0	0.34	0.15	0.0	0.01
5	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.03	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.03	0.0	0.01	0.0	0.0
7	0.0	0.0	0.27	0.0	0.0	1.28	0.32	0.0 T	0.10	0.10	0.0	0.08
8	0.0	0.0	0.0	0.99	0.0	0.61	0.51	0.39	0.02	0.92	0.0	0.15
9	0.0	1.08	0.62	0.0	2.65	0.20	0.0	0.03	0.0	0.46	0.0	0.0
10	0.57	0.04	0.0	0.0	0.02	0.01	1.49	0.14	0.03	0.01	0.0	0.0
11	0.70	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.43	0.01	0.0	0.0
12	0.51	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.01	0.0	0.0
13	0.0	0.0	0.0	0.0	0.05	0.0	0.42	0.05	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.01	0.91	0.84	0.02	0.01	0.01	0.0	0.0
15	0.0	0.09	0.0	0.0	0.33	0.0 T	0.04	0.43	0.32	0.01	0.0 T	0.0
16	0.0	0.0	0.0	0.0	0.01	0.49	0.0	0.43	0.24	0.0	0.09	0.40
17	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0
18	0.0	0.16	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.64	0.01	0.0
19	0.0	0.0 T	0.0	0.0	0.0	0.18	0.80	0.0	0.0	0.66	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	1.00	0.02	0.95	0.0	0.15	0.0	0.77
21	0.0	0.0	0.08	0.0	0.0	0.67	0.0	0.01	0.0	0.10	0.0	0.0
22	0.12	0.0	0.0	0.0	0.0	0.18	0.44	0.67	0.30	0.02	0.04	0.0
23	0.42	0.0	0.0	0.0	0.0	0.29	0.0	0.11	0.0	0.0	0.0	0.0
24	0.07	0.0	0.0	0.0	0.0	0.46	0.01	0.62	0.05	0.0	0.0	0.0
25	0.0	0.0	1.19	0.0	1.04	0.0	0.24	0.16	0.0	0.0	0.0	0.0
26	0.0	0.0	0.78	0.23	0.0	0.25	0.35	0.11	0.60	0.0 T	0.0	0.0
27	0.43	0.0	0.01	0.0	0.0	0.0	0.89	0.0	0.27	0.0	0.0	0.15
28	0.59	0.0	0.0	0.0	0.0	0.26	0.02	0.01	0.0	0.31	0.0	0.0 T
29	0.07	0.0	0.0	0.0	0.97	0.0	0.47	0.01	0.19	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.14	0.0	0.06	0.30	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.03	0.0	0.24	0.31	0.0	0.0	0.0	0.0
TOTAL	3.50	1.69	3.02	1.27	5.35	7.81	9.32	6.06	4.29	3.58	1.09	1.56
STA AV	1.93	2.44	3.38	1.84	4.54	8.58	6.47	6.83	5.97	4.22	1.35	1.52

NOTES: Thiessen weighted rainfall, using 7 rain gages. STA AV based on period July 1, 1955 through 1973.

1973	MEAN DAILY DISCHARGE (cfs)					VERO BEACH, FLORIDA (TAYLOR CREEK)					WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	11.10	49.00	17.70	21.90	14.70	20.20	36.00	277.00	93.00	5.10	72.00	0.0
2	10.50	37.10	17.40	19.60	9.30	16.90	73.00	227.00	123.00	60.00	168.00	0.0
3	9.90	41.60	16.40	17.30	6.90	12.80	52.00	199.00	254.00	12.00	111.00	1.20
4	11.50	42.00	17.10	16.30	7.00	9.40	61.00	153.00	301.00	65.00	50.00	7.20
5	12.80	41.10	18.70	15.00	7.70	8.30	100.00	123.00	347.00	0.0	36.00	2.30
6	12.00	44.10	17.30	13.00	7.70	8.00	84.00	104.00	282.00	31.00	20.00	2.00
7	12.00	29.30	16.40	11.80	7.90	9.20	88.00	91.00	173.00	28.00	21.00	0.0
8	10.50	26.40	16.10	18.70	7.90	54.80	90.00	79.60	113.00	22.00	15.00	0.0
9	9.70	22.60	17.20	29.10	9.50	81.00	100.00	73.00	83.00	272.00	21.00	39.00
10	11.20	62.00	37.40	27.50	43.00	70.00	160.00	63.00	64.00	528.00	0.0	19.00
11	25.50	93.00	60.60	24.00	36.00	41.00	270.00	112.00	58.00	337.00	26.00	0.0
12	46.00	93.00	58.60	14.90	26.10	25.00	180.00	340.00	93.00	182.00	0.0	19.00
13	54.00	67.00	47.20	10.30	21.40	19.30	160.00	225.00	120.00	122.00	28.00	6.50
14	44.60	49.30	35.90	11.20	13.60	14.10	320.00	165.00	90.00	55.00	18.00	6.10
15	33.30	33.10	27.20	10.70	12.10	30.60	750.00	113.00	73.00	74.00	0.0	4.60
16	26.50	36.60	22.30	9.80	12.90	32.00	350.00	113.00	74.00	22.00	0.0	4.90
17	22.70	31.30	18.30	9.00	14.80	34.00	230.00	170.00	102.00	30.00	30.00	32.00
18	20.40	28.50	10.80	8.70	11.00	53.00	179.00	126.00	149.00	5.90	3.50	0.0
19	19.00	29.90	10.80	8.10	9.10	117.00	305.00	90.00	124.00	71.00	12.00	0.0
20	16.60	30.50	21.00	8.10	8.00	111.00	441.00	150.00	97.00	231.00	0.0	37.00
21	15.60	26.10	14.00	6.10	6.50	198.00	377.00	248.00	77.00	197.00	0.0	0.80
22	15.60	23.70	12.60	4.10	5.70	278.00	327.00	215.00	70.00	132.00	0.0	0.0
23	18.70	22.40	11.70	4.60	5.00	238.30	284.00	205.00	106.00	167.00	16.00	7.30
24	25.60	22.70	10.30	4.90	4.50	203.00	223.00	160.00	80.00	84.00	0.0	1.50
25	25.10	19.60	9.40	5.30	4.70	185.00	185.00	200.00	71.00	54.00	0.0	3.60
26	23.50	18.60	51.00	5.80	7.50	114.00	168.00	250.00	63.00	52.00	41.00	7.30
27	25.70	19.70	85.00	6.00	8.80	83.00	385.00	175.00	133.00	24.00	3.20	0.0
28	39.00	19.50	69.10	5.90	8.10	56.00	520.00	124.00	98.00	43.00	0.0	7.30
29	84.00	50.10	50.10	5.80	7.90	52.00	410.00	85.00	87.00	1.10	15.00	0.0
30	86.00	36.40	5.40	5.40	22.00	41.00	370.00	68.00	100.00	17.00	0.0	2.60
31	66.00	27.60	26.00	26.00	26.00	348.00	348.00	81.00	18.00	18.00	0.0	0.0
MEAN	27.25	37.85	28.44	11.96	12.69	73.86	246.00	154.99	123.27	94.91	23.56	6.81
INCHES	0.301	0.377	0.314	0.128	0.140	0.789	2.714	1.710	1.316	1.047	0.252	0.075
STA AV	0.498	0.458	1.049	0.197	0.354	2.131	2.046	2.061	2.633	2.001	1.923	0.208

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .00035589. Discharge is combined flow from Williamson Ditch and S-1 structure. Runoff data furnished by the U.S. Geological Survey. Discharge measurements generally made once a week.

VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3

LOCATION: Okeechobee County, Florida. Runoff gaging site is approximately 11 mi. (airline) N-NW of City of Okeechobee on State Road #68. Northern reach of Taylor Creek Watershed. Lat. 27 deg. 23 min. 24 sec. N.; Long. 80 deg. 53 min. 42 sec. W.

AREA: 12224.00 acres 19.10 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)													VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1973	P	3.38	2.08	3.26	1.11	4.49	7.40	10.88	4.91	5.26	2.81	1.70	1.67	48.95
	Q	0.301	0.407	0.713	0.214	0.195	0.409	4.894	2.858	2.034	0.789	0.657	0.213	13.684
STA AV	P	1.82	2.42	3.34	2.12	4.48	7.86	6.80	6.78	5.66	4.10	1.27	1.46	48.12
	Q	0.447	0.340	1.003	0.178	0.265	1.570	1.946	2.112	2.573	1.769	1.111	0.154	13.468

NOTES: Watershed conditions: 1973: Improved pasture, 41%; range & forest, 48%; cropland, 1%; miscellaneous, 10%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pub. 1383, p. 08.002-3. Precipitation and runoff records began July 1955. Precipitation Thiessen weighted using 2 gages through Dec. 31, 1966; 3 gages beginning Jan. 1, 1967. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee 9 SW, Florida.

1973 DAILY PRECIPITATION (inches)													VERO BEACH, FLORIDA (TAYLOR CREEK) WATERSHED W-3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.03	0.10	0.52	0.03	0.0	1.47	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.07	0.92	0.0	0.0	0.0		
3	0.03	0.42	0.0	0.0	0.0	0.0	0.0	0.04	0.15	0.06	0.0	0.0		
4	0.0	0.0	0.0	0.06	0.03	0.20	0.0	0.0	0.82	0.0 T	0.0	0.0 T		
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.10	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.34	0.0	0.0	1.06	0.29	0.02	0.02	0.02	0.0	0.09		
8	0.0	0.0	0.0	0.88	0.0	0.36	0.87	0.07	0.02	0.70	0.0	0.14		
9	0.0	1.35	0.91	0.0	2.34	0.34	0.0	0.0 T	0.0	0.32	0.0	0.0		
10	0.65	0.05	0.0	0.0	0.07	0.02	1.08	0.26	0.0	0.0	0.0	0.0		
11	0.75	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.65	0.01	0.0	0.0		
12	0.74	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.13	0.0	0.83	0.11	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0 T	0.50	1.28	0.0	0.02	0.02	0.0	0.0		
15	0.0	0.10	0.0	0.0	0.13	0.0 T	0.04	0.35	0.13	0.0	0.0 T	0.0		
16	0.0	0.0	0.0	0.0	0.0 T	0.52	0.0	0.36	0.20	0.0	0.07	0.64		
17	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	1.19	0.0	0.0	0.0		
18	0.0	0.16	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.45	0.0	0.0		
19	0.0	0.0 T	0.0	0.0	0.0	0.15	1.87	0.0	0.0	0.75	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	1.61	0.0	0.42	0.0	0.16	0.0	0.73		
21	0.0	0.0	0.06	0.0	0.0	0.61	0.0	0.0 T	0.0	0.04	0.0	0.0		
22	0.02	0.0	0.0	0.0	0.0	0.01	0.46	0.14	0.18	0.04	0.16	0.0		
23	0.48	0.0	0.0	0.0	0.0	0.20	0.0	0.14	0.0	0.0	0.0	0.0		
24	0.07	0.0	0.0	0.0	0.0	0.53	0.0	0.14	0.01	0.0	0.0	0.0		
25	0.0	0.0	1.60	0.0	0.99	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.27	0.17	0.0	0.14	0.03	0.29	0.50	0.0 T	0.0	0.0		
27	0.13	0.0	0.02	0.0	0.0	0.0	2.28	0.0	0.24	0.0	0.0	0.07		
28	0.46	0.0	0.0	0.0	0.0	0.44	0.0	0.0 T	0.0	0.24	0.0	0.0 T		
29	0.05	0.0	0.0	0.0	0.70	0.0	0.37	0.03	0.11	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.16	0.0	0.0	0.0	0.0		
31	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.39	0.0	0.0	0.0	0.0		
TOTAL		3.38	2.08	3.26	1.11	4.49	7.40	10.88	4.91	5.26	2.81	1.70	1.67	
STA AV		1.82	2.42	3.34	2.12	4.48	7.86	6.80	6.78	5.66	4.10	1.27	1.46	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-2, p. 08.002-1. Thiessen weighted average of 3 rain gages. STA AV based on period July 1, 1955 through 1973.

1973	MEAN DAILY DISCHARGE (cfs)					VERO BEACH, FLORIDA (TAYLOR CREEK)					WATERSHED W-3		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	1.80	5.60	4.10	5.90	2.20	2.60	9.70	104.00	24.00	14.00	38.00	1.80	
2	1.80	5.10	4.10	5.60	2.40	2.40	10.00	104.00	22.00	11.00	61.00	1.80	
3	2.00	8.50	3.80	5.10	2.20	2.10	10.00	78.00	62.00	8.60	44.00	1.80	
4	1.80	6.20	4.10	4.80	1.80	1.80	9.20	65.00	111.00	6.20	32.00	1.80	
5	1.80	5.40	4.10	3.80	1.80	1.70	8.10	56.00	179.00	4.90	24.00	1.80	
6	1.60	4.60	3.80	3.40	1.60	1.70	7.20	47.00	90.00	4.00	18.00	1.80	
7	1.80	4.60	3.40	3.80	1.00	1.40	37.00	40.00	52.00	3.60	13.00	1.80	
8	1.80	4.80	4.10	7.50	0.90	0.50	39.00	34.00	31.00	5.90	10.00	2.00	
9	1.60	5.10	8.20	8.20	9.30	0.60	41.00	26.00	21.00	12.00	8.50	2.40	
10	4.30	32.00	39.00	7.00	17.00	0.80	38.00	21.00	14.00	29.00	7.90	2.20	
11	8.20	20.00	43.00	5.60	5.90	0.80	90.00	35.00	11.00	22.00	7.20	2.00	
12	14.00	14.00	31.00	4.80	5.10	1.00	42.00	188.00	20.00	17.00	6.60	1.80	
13	10.00	11.00	24.00	3.80	3.60	1.20	40.00	89.00	32.00	6.80	5.90	1.60	
14	7.00	8.50	17.00	3.40	3.20	1.60	109.00	60.00	25.00	12.00	5.60	1.60	
15	5.10	7.90	12.00	2.80	3.00	2.40	322.00	45.00	16.00	10.00	5.90	1.80	
16	4.30	6.20	9.30	2.60	3.20	2.10	113.00	49.00	12.00	8.60	5.10	2.40	
17	4.30	5.10	8.20	2.60	2.60	2.10	69.00	47.00	24.00	7.60	4.30	3.40	
18	4.30	5.10	5.40	2.80	2.20	2.00	44.00	36.00	54.00	7.20	3.80	3.40	
19	4.30	6.60	4.60	2.60	1.80	2.20	66.00	26.00	41.00	20.00	4.30	24.00	
20	4.10	9.60	3.80	2.40	1.00	5.20	216.00	48.00	30.00	37.00	4.10	5.10	
21	4.10	3.50	4.10	2.20	0.60	12.00	137.00	63.00	24.00	34.00	3.80	5.90	
22	4.10	4.60	4.10	2.00	1.00	20.00	99.00	33.00	17.00	27.00	3.40	5.60	
23	5.40	4.30	3.80	1.80	1.20	21.00	88.00	29.00	14.00	19.00	3.00	5.60	
24	7.00	4.30	3.40	2.00	0.60	20.00	64.00	26.00	13.00	16.00	3.20	5.60	
25	6.20	4.10	3.60	2.00	5.90	20.00	50.00	22.00	12.00	13.00	3.20	4.30	
26	5.60	4.10	36.00	2.00	4.30	19.00	42.00	23.00	9.50	11.00	2.80	3.40	
27	6.20	4.10	26.00	2.40	3.00	16.00	74.00	20.00	13.00	10.00	2.60	3.20	
28	7.20	4.10	18.00	1.60	2.50	14.00	308.00	16.00	26.00	8.90	2.40	3.20	
29	10.00		13.00	2.80	2.50	19.00	153.00	12.00	25.00	4.30	2.00	0.0	
30	7.00		9.70	2.40	3.80	13.00	99.00	11.00	20.00	7.50	1.80	3.40	
31	5.90		7.50		3.20		79.00	15.00		7.20		3.00	
MEAN	4.987	7.464	11.813	3.657	3.239	7.007	81.071	47.355	34.817	13.074	11.247	3.532	
INCHES	0.301	0.407	0.713	0.214	0.195	0.409	4.894	2.858	2.034	0.789	0.657	0.213	
STA AV	0.447	0.340	1.003	0.178	0.265	1.570	1.946	2.112	2.573	1.769	1.111	0.154	

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by .00194712. Runoff data furnished by U.S. Geological Survey.

VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED W-5

LOCATION: Okeechobee County, Florida; 125 feet upstream from control structure 7, 450 feet upstream from confluence with Taylor Creek, 3.6 miles north of town of Okeechobee, Florida. Lat. 27 deg. 18 min. 40 sec. N.; Long. 80 deg. 53 min. 44 sec. W.

AREA: 22656.00 acres 35.40 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSHED W-5		
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1973	P	3.31	1.56	2.93	1.37	6.21	7.38	9.69	5.60	4.48	3.90	0.40	1.35	48.18
	Q	0.268	0.265	0.178	0.104	0.159	1.327	1.859	1.751	1.201	1.617	0.151	0.110	8.990
STA AV	P	2.13	2.41	3.33	0.90	4.47	10.48	7.42	7.57	5.09	5.25	1.35	1.34	51.75
	Q	0.600	0.373	0.929	0.192	0.311	2.602	2.643	2.652	1.730	1.949	0.609	0.332	14.922

NOTES: Watershed Conditions: 1973: Vegetative cover: Improved pasture - 60%; unimproved pasture and range with little timber - 15%; woodland - 10%; citrus - 5%; marsh-swamp - 5%; urban, roads, etc. - 5%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1971, USDA Misc. Pub. 1383, p. 08.002-3. Precipitation and runoff records began April 1964, part-year records not included in STA AV. Precipitation Thiessen weighted using 2 gages. Runoff data furnished by U.S. Geological Survey. For long-time precipitation records, see National Weather Service records at Okeechobee Hurricane Gate 6, Florida (gage discontinued Nov. 1971, afterwards use Okeechobee 9 SW).

1973	DAILY PRECIPITATION (inches)					VERO BEACH, FLORIDA (WILLIAMSON DITCH) WATERSHED W-5							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.01	1.46	0.08	0.0	0.0	0.39	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	1.44	0.0	0.59	0.0	0.0	0.0	
3	0.02	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.04	0.09	0.0	0.0	0.0	0.04	0.17	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.03	0.0	0.0	
7	0.0	0.0	0.14	0.0	0.0	1.79	0.46	0.0	0.17	0.20	0.0	0.03	
8	0.0	0.0	0.0	1.11	0.0	0.86	0.11	0.32	0.03	1.00	0.0	0.13	
9	0.0	1.07	0.66	0.0	3.06	0.15	0.0	0.0	0.0	0.68	0.0	0.0	
10	0.45	0.03	0.0	0.0	0.0	0.0	2.03	0.0	0.04	0.01	0.0	0.0	
11	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.39	0.03	0.0	0.0	
12	0.43	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.03	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.01	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.72	0.39	0.06	0.01	0.0	0.0	0.0	
15	0.0	0.10	0.0	0.0	0.52	0.0	0.04	0.29	0.54	0.01	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.61	0.42	0.0	0.01	0.20	
17	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	
18	0.0	0.14	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.73	0.0	0.0	
19	0.0	0.0	0.0	0.0	0.0	0.07	0.34	0.0	0.0	0.43	0.0	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.56	0.04	1.28	0.0	0.07	0.0	0.89	
21	0.0	0.0	0.15	0.0	0.0	0.80	0.0	0.0	0.0	0.21	0.0	0.0	
22	0.16	0.0	0.0	0.0	0.0	0.05	0.36	0.66	0.51	0.0	0.0	0.0	
23	0.41	0.0	0.0	0.0	0.0	0.56	0.0	0.13	0.0	0.0	0.0	0.0	
24	0.08	0.0	0.0	0.0	0.0	0.43	0.0	0.64	0.14	0.0	0.0	0.0	
25	0.0	0.0	0.83	0.0	1.08	0.0	0.19	0.34	0.0	0.0	0.0	0.0	
26	0.0	0.0	1.03	0.22	0.0	0.14	0.46	0.0	0.83	0.0	0.0	0.0	
27	0.46	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.36	0.0	0.0	0.10	
28	0.61	0.0	0.0	0.0	0.0	0.32	0.02	0.0	0.0	0.30	0.0	0.0	
29	0.06	0.0	0.0	0.0	1.24	0.0	0.69	0.0	0.29	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.14	0.0	0.13	0.46	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.08	0.0	0.15	0.02	0.0	0.0	0.0	0.0	
TOTAL	3.31	1.56	2.93	1.37	6.21	7.38	9.69	5.60	4.48	3.90	0.40	1.35	
STA AV	2.13	2.41	3.33	0.90	4.47	10.48	7.42	7.57	5.09	5.25	1.35	1.34	

NOTES: For daily air temperatures in the vicinity, see p. 08.002-1. Precipitation values are Thiessen weighted averages of two gages. STA AV based on 9 yr (1965-1973) record period.

1973	MEAN DAILY DISCHARGE (cfs)					VERO BEACH, FLORIDA (WILLIAMSON DITCH)					WATERSHED W-5	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	4.60	12.00	5.70	3.90	2.70	12.00	11.00	117.00	33.00	37.00	8.60	3.90
2	4.20	8.10	5.40	3.60	3.30	9.60	50.00	77.00	23.00	23.00	11.00	3.30
3	3.90	8.60	5.40	3.30	3.00	6.50	30.00	59.00	54.00	15.00	12.00	3.30
4	4.20	11.00	6.10	3.30	2.70	4.60	40.00	33.00	51.00	13.00	9.60	3.30
5	4.20	9.10	7.70	3.00	2.40	3.90	80.00	23.00	47.00	11.00	7.70	3.60
6	4.20	8.10	7.30	3.00	2.10	3.90	54.00	14.00	32.00	9.60	5.40	3.60
7	4.20	7.30	6.50	2.70	2.10	5.00	43.00	11.00	23.00	8.60	4.60	3.60
8	3.90	5.40	6.10	5.70	2.10	48.00	30.00	9.60	23.00	18.00	4.60	3.60
9	3.90	4.60	4.20	9.10	2.70	61.00	20.00	13.00	23.00	142.00	5.00	3.00
10	4.20	22.00	5.40	6.50	23.00	45.00	40.00	13.00	19.00	307.00	5.40	2.70
11	6.50	29.00	4.60	5.00	14.00	23.00	80.00	12.00	23.00	182.00	4.60	2.70
12	11.00	20.00	4.60	3.90	9.10	12.00	60.00	40.00	43.00	110.00	3.90	2.40
13	10.00	11.00	4.20	3.30	5.40	11.00	50.00	25.00	40.00	72.00	3.30	2.40
14	8.60	7.30	3.90	3.00	3.60	7.70	70.00	15.00	30.00	48.00	3.30	2.40
15	7.30	9.10	4.20	2.70	4.20	9.60	150.00	30.00	23.00	31.00	3.30	2.40
16	6.50	8.60	3.30	2.40	5.00	10.00	100.00	23.00	34.00	23.00	3.30	2.70
17	5.70	7.30	3.30	2.40	6.50	12.00	80.00	90.00	52.00	14.00	3.30	2.40
18	5.40	6.50	3.30	2.40	4.20	20.00	59.00	56.00	49.00	13.00	3.00	2.40
19	5.00	6.90	3.30	2.10	3.30	79.00	55.00	30.00	39.00	32.00	2.70	2.40
20	4.60	6.50	3.00	2.10	2.70	66.00	41.00	50.00	27.00	77.00	2.70	3.00
21	4.60	6.10	3.00	2.10	2.40	128.00	27.00	128.00	17.00	71.00	2.70	6.10
22	4.60	5.70	3.00	2.10	2.40	188.00	27.00	75.00	20.00	76.00	2.40	5.70
23	5.70	5.40	3.00	2.40	2.10	128.00	34.00	85.00	61.00	61.00	2.70	5.00
24	8.60	5.70	2.70	2.40	1.80	103.00	23.00	70.00	40.00	43.00	3.60	5.00
25	8.10	4.60	2.40	2.70	1.80	105.00	15.00	120.00	36.00	30.00	3.90	4.60
26	6.50	4.60	16.00	3.00	2.10	64.00	18.00	150.00	33.00	22.00	4.20	4.20
27	7.70	5.70	17.00	3.00	2.40	43.00	85.00	105.00	98.00	14.00	5.00	3.90
28	12.00	6.50	9.10	2.70	2.40	26.00	70.00	74.00	58.00	12.00	4.20	3.90
29	36.00		6.10	2.40	2.70	17.00	60.00	45.00	37.00	3.90	3.90	0.0
30	31.00		5.40	2.40	12.00	11.00	120.00	33.00	55.00	11.00	3.60	3.90
31	18.00		4.60		15.00		148.00	41.00		9.10		3.60
MEAN	8.223	9.025	5.477	3.287	4.877	42.093	57.097	53.761	38.100	49.652	4.783	3.387
INCHES	0.268	0.265	0.178	0.104	0.159	1.327	1.859	1.751	1.201	1.617	0.151	0.110
STA AV	0.600	0.373	0.929	0.192	0.311	2.602	2.643	2.652	1.730	1.949	0.609	0.332

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.00105056. Runoff data furnished by U.S. Geological Survey. Records are good to fair. STA AV based on 9 yr (1965-1973) record period.

WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)

LOCATION: Oconee Co., Ga.; 7 mi. S.W. of Athens, near Watkinsville, Ga., Oconee River Basin.

AREA: 19.20 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	5.80	3.20	10.44	4.26	6.57	5.36	2.72	1.64	5.12	0.78	1.72	7.66	55.27			
	Q	0.032	0.288	1.512	0.617	0.632	0.021	0.011	0.0	0.010	0.0	0.0	0.413	3.537			
STA AV	P	4.84	4.60	6.07	4.34	3.99	3.78	4.92	3.87	3.20	2.84	3.54	4.75	50.73			
	Q	0.480	0.370	0.677	0.428	0.369	0.207	0.361	0.304	0.034	0.059	0.280	0.276	3.847			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		3-31	0.635	3-31	0.437	3-31	0.585	3-31	0.735	3-31	0.786	3-31	1.057	3-31	1.068	3-31	1.613
MAXIMUMS FOR PERIOD OF RECORD																	
		4-25	2.710	6-26	1.840	6-26	2.540	6-26	3.480	6-26	3.740	6-26	3.780	11-26	5.680	11-22	6.640
		1945		1963		1963		1963		1963		1963		1948		1948	

NOTES: Watershed conditions: 1973: Excellent coastal bermudagrass pasture. Fertilized and cut as follows: April 23 CaCO₃ 3800 lbs and NH₄NO₃ 3500 lbs, April 25 potash 60% 3800 lbs, June 5 cut 700 bales hay, July 7 NH₄NO₃ 4800 lbs, August 22 cut 1662 bales hay, August 24 NH₄NO₃ 2000 lbs, October 2 cut 1000 bales hay, October 28 rye sown. A total of 13,067 cow-days of grazing. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pnb. 945, p. 10.1-8. Precipitation and runoff records began Sept. 1, 1939. For long-time precipitation records, see National Weather Service records at Athens, Ga. (1885-1939) and Southern Piedmont Conservation Research Center (1940-73).

1973 DAILY AIR TEMPERATURE (degrees F)														WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	63	48	48	41	61	28	73	56	76	49	79	56	90	68	87	71	90	67	66	62	67	39	72	39			
2	54	45	60	44	63	38	70	46	71	56	85	59	91	69	83	71	90	64	75	62	74	35	60	36			
3	48	38	44	33	69	48	66	44	74	52	84	60	93	66	86	68	93	63	82	58	77	45	64	44			
4	58	38	63	30	73	44	64	43	69	44	84	62	91	68	86	65	88	66	84	57	79	53	71	48			
5	56	42	66	30	70	55	58	38	73	37	84	66	85	69	86	70	88	65	85	58	76	44	62	42			
6	56	40	64	46	63	55	64	34	67	41	78	65	89	65	85	67	89	65	74	62	61	33	55	35			
7	44	29	67	37	62	56	52	46	76	55	80	65	88	66	85	67	92	66	78	54	55	37	49	28			
8	31	24	63	38	71	54	60	40	68	62	78	63	89	70	88	69	93	67	79	56	61	49	42	39			
9	30	27	39	35	66	59	67	40	77	62	75	68	92	69	90	67	95	68	79	56	64	41	54	35			
10	31	28	42	27	65	61	48	36	83	52	82	69	91	69	91	67	87	69	79	54	51	25	47	31			
11	34	21	48	16	69	62	54	30	87	58	84	67	88	70	94	68	84	66	74	54	51	26	40	26			
12	34	21	41	20	77	52	68	29	77	56	87	70	84	68	88	70	86	59	71	52	62	24	47	30			
13	43	16	47	23	81	44	65	37	73	51	88	69	87	63	88	70	77	64	78	50	70	29	68	43			
14	49	17	59	36	79	52	68	31	76	52	89	67	88	70	88	70	82	67	70	56	74	37	55	33			
15	55	33	49	35	81	62	70	38	71	49	86	67	88	70	87	69	85	60	80	50	73	48	42	31			
16	55	23	39	24	76	55	66	45	70	38	87	67	89	67	86	65	76	67	74	51	64	37	42	34			
17	62	25	42	18	55	41	68	54	71	46	91	67	82	72	83	68	85	63	67	40	61	28	39	28			
18	63	35	41	20	60	37	68	56	69	34	90	66	78	67	81	69	80	55	73	36	61	29	46	25			
19	59	44	54	19	70	41	73	58	67	40	88	67	84	70	86	64	76	51	75	40	75	38	40	26			
20	68	37	56	23	56	44	80	51	73	56	84	70	87	65	89	62	80	55	79	41	72	41	42	33			
21	55	37	58	24	53	34	79	51	78	52	88	69	90	68	85	61	85	57	76	45	66	54	40	23			
22	63	48	53	29	63	26	78	51	82	47	86	69	93	68	78	58	84	62	74	49	69	45	44	13			
23	60	39	59	33	66	29	76	57	82	63	84	66	91	71	78	58	86	61	74	46	68	43	57	22			
24	57	32	66	29	63	36	72	58	76	60	88	62	84	70	82	59	84	62	76	46	76	48	61	28			
25	60	26	63	27	60	43	67	60	80	56	88	63	86	71	84	62	78	63	75	44	74	58	53	41			
26	50	36	65	47	59	48	68	59	78	56	85	60	89	70	86	64	74	65	80	46	74	58	65	48			
27	52	32	65	40	69	46	60	48	81	58	85	61	86	71	91	66	74	66	79	44	78	65	62	39			
28	50	31	57	33	64	48	62	42	80	65	85	67	89	70	93	65	82	67	68	49	68	43	58	27			
29	42	23			53	45	72	35	77	61	82	64	93	66	93	65	84	62	52	40	53	35	64	28			
30	46	15			54	45	78	41	80	54	87	61	93	66	90	67	84	65	58	39	66	28	57	46			
31	52	20			67	54			79	54			88	70	90	68			55	44			73	50			
AV.		51	31	54	31	66	47	67	45	76	52	85	65	88	68	87	66	84	63	74	50	67	41	54	34		
MEAN		41.2		42.5		56.2		56.2		63.9		74.9		78.4		76.5		73.8		61.8		54.0		44.0			
STA AV		52	32	54	32	63	40	73	47	78	54	87	64	90	69	87	68	85	64	75	52	63	39	56	37		

NOTES: STA AV based on 5 yr (1969-73) record period.

1973 DAILY PRECIPITATION (inches) WATKINSVILLE, GEORGIA WATERSHED #1 (10001)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	1.63	0.0	0.0	0.0	0.25	0.0	0.28	0.0	0.0	0.0	0.0
2	0.05	0.50	0.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.43	0.0	0.05	0.0	0.44	0.0	0.0	0.0	0.25	0.0	0.0	0.0
4	0.09	0.0	0.24	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.08
5	0.30	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	1.58
6	0.43	0.10	0.44	0.0	0.0	1.56	0.0	0.0	0.0	0.0	0.0	0.0
7	1.58	0.0	0.0	2.68	0.0	0.0	0.0	0.01	0.0	0.0	0.08	0.0
8	0.28	0.29	0.04	0.0	0.75	0.62	0.51	0.0	0.0	0.0	0.0	0.09
9	0.0	0.0	0.42	0.0	0.0	0.53	0.0	0.0	1.67	0.0	0.0	0.0
10	0.0	0.12	0.01	0.0	0.0	0.36	0.0	0.0	0.03	0.0	0.0	0.0
11	0.0	0.0	1.88	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.72	0.0	0.0	1.47	0.0	0.0	0.06
14	0.0	0.47	0.0	0.0	0.0	0.0	0.26	0.05	0.35	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.73
16	0.0	0.0	2.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19
17	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.52	0.16	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	0.23	0.0	0.0	0.0
19	0.47	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.27	0.0	0.56	0.14	0.0	0.0	0.0	0.0	0.07	0.93
21	0.58	0.0	0.11	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.82	0.0
22	0.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	1.20	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.45	0.14	0.0	0.13	0.24	0.0	0.0	0.0	0.16	0.0
26	1.03	0.09	0.0	0.24	0.0	0.04	0.0	0.0	0.0	0.0	0.05	0.87
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0
28	0.07	0.0	0.0	0.0	3.94	0.23	0.0	0.0	0.0	0.49	0.54	0.0
29	0.0	0.0	0.55	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.12
30	0.0	0.0	0.0	0.0	0.0	0.0	1.24	0.0	0.47	0.0	0.0	0.73
31	0.0	0.0	3.13	0.0	0.0	0.0	0.0	0.26	0.0	0.29	0.0	2.28
TOTAL	5.80	3.20	10.44	4.26	6.57	5.36	2.72	1.64	5.12	0.78	1.72	7.66
STA AV	4.84	4.60	6.07	4.34	3.99	3.78	4.92	3.87	3.20	2.84	3.54	4.75

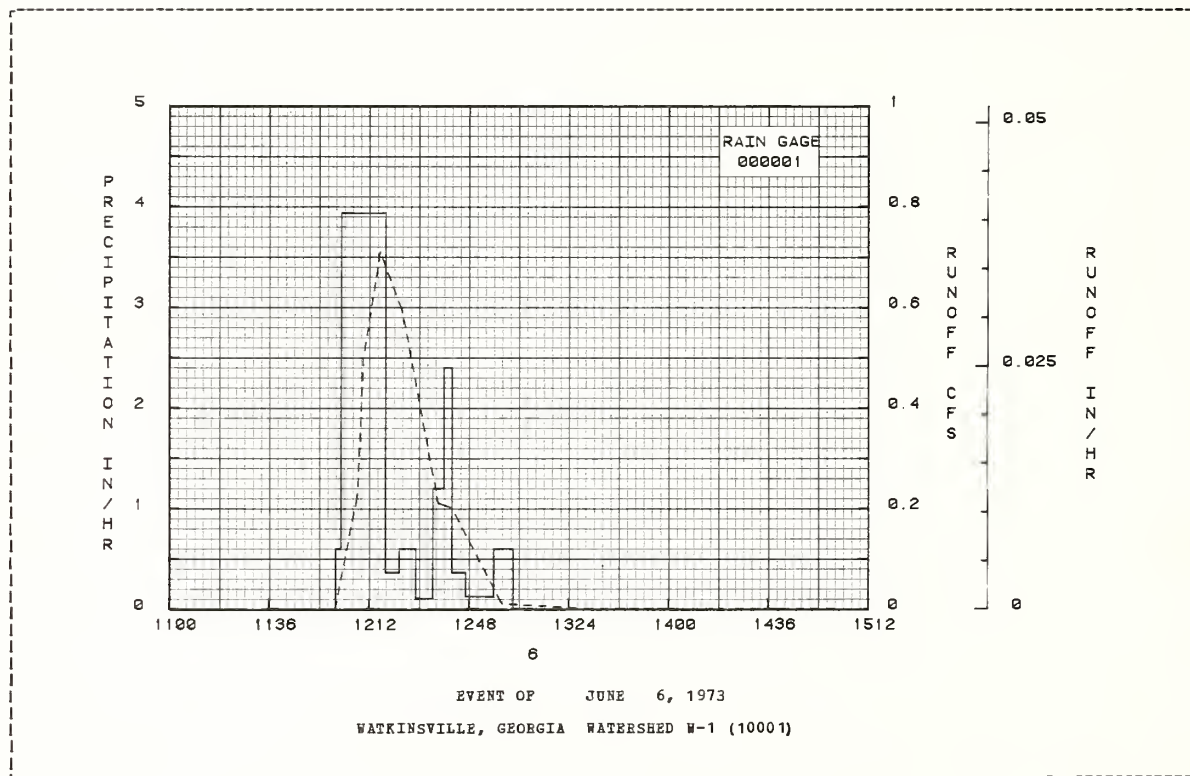
NOTES: Daily precipitation values from rain gage R1-W1. STA AV based on 34 yr (1940-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) WATKINSVILLE, GEORGIA WATERSHED #1 (10001)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.020	0.0	0.056	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.212	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.001	0.0	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0
7	0.008	0.0	0.0	0.432	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.006	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.002	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.123	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.007	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
16	0.0	0.0	0.267	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
21	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.474	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.036	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.003
31	0.0	0.0	0.805	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.324
MEAN	0.0008	0.0083	0.0393	0.0166	0.0164	0.0006	0.0003	0.0	0.0003	0.0	0.0	0.0107
INCRES	0.032	0.288	1.512	0.617	0.632	0.021	0.011	0.0	0.010	0.0	0.0	0.413
STA AV	0.480	0.370	0.677	0.428	0.369	0.207	0.361	0.304	0.034	0.059	0.280	0.276

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply 1.239669. STA AV based on 34 yr (1940-73) record period.

1973 SELECTED RUNOFF EVENT			WATKINSVILLE, GEORGIA WATERSHED W-1 (10001)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 6, 1973										
RG 000001			RG 000001							
6- 6	0.07	0.0	6- 6	1200	0.0	0.0	6- 6	1200	0.0	0.0
				1202	0.6001	0.02		1208	0.233	0.0008
				1218	3.9375	1.07		1210	0.504	0.0014
				1223	0.3600	1.10		1216	0.714	0.0046
				1229	0.6000	1.16		1224	0.591	0.0091
WATERSHED CONDITIONS:										
Active growing Coastal				1235	0.0999	1.17		1237	0.208	0.0135
Bermudagrass, being				1239	1.2000	1.25		1242	0.196	0.0144
grazed. Excellent cover.				1242	2.4002	1.37		1300	0.011	0.0160
				1247	0.3600	1.40		1330	0.0	0.0161
				1257	0.1199	1.42				
				1304	0.6001	1.49				
				1400	0.0	1.49				

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.051653.



KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38

LOCATION: Northumberland County, Pennsylvania 6 miles northeast of Klingerstown, Pennsylvania: Mahantango Creek Watershed, Susquehanna River Basin. Lat. 40 deg. 42 min. 16 sec. N.; Long. 76 deg. 35 min. 16 sec. W.

AREA: 1773.00 acres 2.77 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	2.54	1.89	2.40	5.10	3.95	4.93	1.65	4.03	8.52	2.10	1.60	6.05	44.76			
	Q	2.613	1.483	1.942	3.748	1.997	1.008	0.567	0.333	2.611	0.735	0.529	5.326	22.891			
STA AV	P	1.96	2.14	2.59	3.22	4.31	6.27	3.57	3.19	4.12	2.43	4.16	3.56	41.50			
	Q	1.472	2.623	2.896	2.306	1.834	3.293	0.655	0.472	0.803	0.348	1.627	3.030	21.361			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		9-18	0.114	9-18	0.102	9-18	0.166	12-21	0.391	12-20	0.746	12-20	1.316	12-20	1.903	12-20	3.591
MAXIMUMS FOR PERIOD OF RECORD																	
		6-22	0.917	6-22	0.786	6-22	1.484	6-22	3.411	6-22	6.373	6-22	10.432	6-22	12.378	6-21	14.330
		1972		1972		1972		1972		1972		1972		1972		1972	

NOTES: Watershed conditions: Mixed cover area, 4-yr rotation of corn, small grain, small grain and native grasses, most of which is heavily contoured. Vegetative cover: corn, 20.4%; small grain, 20.0%; pasture, 4.0%; hay, 12.9%; vegetables, 0.7%; idle, 0.6%; orchard, 0.5%; homesteads and roads, 3.1%; forest, 37.8%. Precipitation and runoff records began Jan. 1, 1968. Precipitation data Thiessen weighted average for rain gages MH37 and ME37. Length of record 6 yr (1968-73). For long-time precipitation records, see National Weather Service records at Selinsgrove, CAA Airport, Pennsylvania.

1973 DAILY AIR TEMPERATURE (degrees F)														KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	60	35	36	17	51	30	56	48	70	50	64	46	80	57	74	68	88	64	66	48	54	44	43	27			
2	37	28	56	35	60	36	54	46	74	59	72	55	80	65	84	70	88	66	65	56	65	40	39	24			
3	34	23	43	33	48	40	52	39	66	49	73	58	74	66	80	64	87	66	72	58	62	40	51	30			
4	40	32	45	32	57	39	46	38	48	40	83	62	83	66	82	62	86	67	76	54	50	34	62	40			
5	37	28	44	33	48	39	47	36	56	41	84	61	80	62	83	57	84	66	72	52	45	36	62	49			
6	28	14	36	32	40	38	58	37	65	42	82	64	78	58	85	59	76	60	68	46	36	31	50	37			
7	20	12	42	32	48	40	62	38	68	46	78	60	83	59	85	64	74	52	64	44	42	28	36	30			
8	18	10	38	21	61	43	47	34	56	49	82	58	86	62	88	67	74	50	70	52	49	29	36	28			
9	26	8	25	16	62	44	52	25	68	53	86	64	87	64	89	68	66	49	62	56	43	28	45	34			
10	25	15	26	14	56	40	44	33	73	50	85	66	84	66	90	68	72	44	70	55	35	27	44	32			
11	30	12	34	8	47	42	41	30	67	47	88	64	76	58	84	64	76	48	62	48	38	25	34	26			
12	27	14	30	7	52	45	42	29	62	46	88	64	71	54	82	64	70	49	66	44	46	27	34	26			
13	34	12	37	12	53	38	46	29	58	43	77	64	83	55	80	62	72	45	72	51	58	44	41	28			
14	38	20	37	22	49	37	52	28	60	40	76	56	87	64	75	67	65	60	66	46	66	50	41	31			
15	38	31	36	32	52	41	62	33	56	40	78	50	72	62	80	66	72	54	70	43	69	50	31	25			
16	46	27	32	7	58	45	68	41	62	34	68	60	80	58	76	65	72	52	59	42	55	36	25	20			
17	57	30	17	2	64	29	62	54	57	35	68	54	77	58	80	64	62	47	50	35	39	30	21	14			
18	54	22	27	7	32	27	70	56	52	35	60	54	81	56	72	64	67	49	52	37	40	25	23	14			
19	47	32	34	14	36	30	74	57	64	32	71	58	84	62	77	63	64	42	55	34	46	37	24	17			
20	38	23	44	26	44	29	69	49	56	51	78	63	80	66	74	62	64	48	62	43	48	32	48	24			
21	40	16	38	31	40	22	65	46	56	50	79	65	70	64	74	62	62	40	60	41	50	40	48	20			
22	54	30	32	25	35	29	80	48	70	44	74	64	78	62	68	58	68	47	64	37	59	43	27	18			
23	44	31	30	19	47	28	67	46	57	50	80	62	81	62	73	46	77	56	65	40	58	40	36	23			
24	33	27	34	23	57	26	66	45	55	48	80	60	82	60	76	56	70	53	67	38	52	41	32	21			
25	44	21	36	20	54	38	50	39	59	48	77	57	79	60	80	56	60	56	70	40	58	41	37	26			
26	54	34	35	26	52	43	50	48	51	47	76	63	82	66	84	64	68	54	68	40	43	38	53	35			
27	42	36	34	22	56	30	49	44	50	46	79	64	85	70	86	68	76	56	60	43	52	43	50	40			
28	40	34	44	17	52	22	46	42	74	50	76	61	85	62	92	68	72	59	51	42	63	44	41	34			
29	35	14			52	32	57	39	72	55	78	62	87	62	90	68	71	55	58	46	44	35	43	30			
30	22	8			50	42	61	38	74	50	78	58	84	64	90	66	66	48	49	36	54	30	38	28			
31	26	14			54	44			65	49			84	63	90	65			54	32			33	30			
AV.	38	22	36	21	51	36	57	41	62	46	77	60	81	62	81	63	72	53	63	44	51	36	40	28			
MEAN	30.1		28.4		43.2		48.5		53.9		68.6		71.3		72.4		62.9		54.0		43.5		33.7				
STA AV	32	18	34	20	44	29	58	39	66	48	76	58	81	61	79	60	74	55	61	44	48	34	38	26			

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 2400 the preceding day to 2400 the date shown. Data recorded at MB meteorological station. STA AV based on 6 yr (1968-73) record period.

Cooperative Research Project with USDA, Soil Conservation Service, The Pennsylvania State University Agricultural Experiment Station, and the Institute for Research on Land and Water Resources of the Pennsylvania State University

1973	DAILY PRECIPITATION (inches)					KLINGESTOWN, PENNSYLVANIA WATESEED WE-38						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.05	0.05	0.0	0.90	0.0	0.10	0.0	0.80	0.0	0.0	0.15	0.0
2	0.0	0.84	0.0	0.30	0.15	0.0	0.0	0.0	1.21	0.30	0.0	0.0
3	0.15	0.0	0.10	0.0	0.20	0.0	0.45	0.0	0.0	0.0	0.0	0.0
4	0.35M	0.0	0.0	1.10	0.0	0.30	0.0	0.0	0.0	0.05	0.0	0.16
5	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.74
6	0.0	0.05	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.05M	0.10	0.10	0.0	0.05	0.0	0.0	0.05	0.0	0.0	0.0
8	0.0	0.20	0.20	0.50	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.18
9	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.15	0.05	1.17
10	0.0	0.0	0.0	0.55	0.40	0.0	0.0	0.25	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.59	0.0	0.0	0.0	0.0
12	0.0	0.0	0.05	0.0	0.19	0.35	0.0	1.07	0.0	0.0	0.0	0.0
13	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.20
14	0.0	0.55	0.10	0.0	0.0	0.0	0.0	0.10	3.31	0.0	0.0	0.05L
15	0.0	0.0	0.16	0.05	0.10	0.0	0.10	0.30	0.0	0.0	0.20	0.0
16	0.10	0.05S	0.20	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.10	0.15
17	0.0	0.05	0.90	0.05	0.45	0.0	0.20	0.0	0.0	0.0	0.0	0.40
18	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.15	2.09	0.05E	0.0	0.0
19	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.73	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.90	0.0	0.06	0.05	0.0	0.0	0.0	1.09
21	0.0	0.0	0.0	0.0	0.05	0.20	0.44	0.0	0.0	0.0	0.0	0.85
22	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.05	0.0	0.0
23	0.0	0.0	0.0	0.50	0.15	0.0	0.0	0.0	0.40	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.40	0.0
25	0.0	0.0	0.33	0.50	0.02	0.74	0.0	0.0	0.0	0.0	0.30	0.0
26	0.0	0.0	0.07	0.05	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.70
27	0.60	0.0	0.0	0.45	0.20	0.0	0.10	0.0	0.0	0.0	0.13	0.19
28	0.15	0.0	0.0	0.05	0.20	1.83	0.0	0.0	0.08	0.0	0.27	0.01
29	0.31M	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.68	1.45	0.0	0.05
30	0.0	0.0	0.15	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10L
TOTAL	2.54	1.89	2.40	5.10	3.95	4.93	1.65	4.03	8.52	2.10	1.60	6.05
STA AV	1.96	2.14	2.59	3.22	4.31	6.27	3.57	3.19	4.12	2.43	4.16	3.56

NOTES: Precipitation values are Thiessen weighted average of rain gages ME37 and ME37. STA AV based on 6 yr (1968-73) record period.

1973	MEAN DAILY DISCHARGE (cfs)					KLINGESTOWN, PENNSYLVANIA WATESEED WE-38						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	11.516	6.098E	1.542	7.862	4.817	3.564	4.442	0.860	0.364	3.272	2.526	2.378
2	10.214	6.098E	1.625	13.806	4.584	3.312	3.276	0.889	3.066	3.689	1.862	2.125
3	8.149	6.098E	1.843	14.432	4.700	2.997	3.723	0.569	1.403	3.251	1.559	2.094
4	9.702	6.098E	2.260	28.400	4.138	2.966	2.923	0.473	0.990	2.878	1.407	2.029
5	8.447	6.098E	2.209	33.927	3.683	2.643	2.918	0.422	0.801	2.532	1.337	5.202E
6	7.865	6.098E	2.148	17.362	3.273	2.772	2.031	0.393	0.714	2.180	1.239	4.475E
7	5.367	6.098E	2.165	11.648	2.964	2.485	1.721	0.375	0.577	2.042	1.167	4.475E
8	4.424	6.098E	3.612	13.587	2.887	2.005	1.539	0.362	0.466	1.875	1.127	4.475E
9	3.960E	5.948	3.297	11.196	4.896	1.785	1.405	0.339	0.434	1.763	1.121	4.475E
10	3.942E	5.058	3.239	17.536	4.092	1.653	1.310	0.406	0.418	1.609	1.026	4.475E
11	3.903	4.457	3.295	14.854	4.347	1.552	1.215	1.052	0.405	1.449	0.976	4.475E
12	3.403	3.915	3.244	11.314	4.366	1.666	1.087	3.083	0.360	1.379	0.976	4.475E
13	3.037	3.552	2.934	8.529	4.117	1.566	1.072	1.146	0.324	1.337	0.976	4.475E
14	7.075	3.477	2.861	6.984	3.838	1.342	0.996	0.799	19.250	1.291	0.976	4.475E
15	6.098E	4.711	3.227	5.835	3.818	1.230	1.008	0.948	16.219	1.208	1.025	4.475E
16	6.098E	3.561	2.992	5.054	3.548	1.335	0.916	0.750	6.730	1.139	1.172	4.475E
17	6.098E	3.363	15.809	4.561	3.968	1.231	1.023	0.594	3.842	1.103	0.928	4.475E
18	6.098E	2.786	21.469	4.022	3.801	1.296	0.913	0.607	50.755	1.050	0.898	4.069
19	6.098E	2.497	12.526	3.617	3.194	1.158	0.816	2.374	18.039	0.963	0.886	3.311
20	6.098E	2.580	8.398	3.166	8.010	1.077	0.764	1.582	8.219	0.936	0.810	23.786
21	6.098E	2.545	6.639	2.932	9.889	1.073	1.073	1.137	5.047	0.868	0.787	94.620
22	6.098E	2.455	5.406	2.822	8.775	1.117	0.841	0.936	3.731	0.838	0.802	34.872
23	6.098E	2.245	4.490	3.185	7.548	1.000	0.703	0.778	15.746	0.838	0.774	17.231
24	6.098E	1.919	3.988	2.953	6.664	0.929	0.636	0.668	9.737	0.813	1.190	11.230
25	6.098E	1.734	3.793	3.088	5.957	2.002	0.637	0.606	6.417	0.775	1.740	8.830
26	6.098E	1.681	4.792	3.646	4.892	1.065	0.660	0.549	4.500	0.774	1.370	19.630
27	6.098E	1.615	3.498	5.341	4.425	0.989	0.650	0.516	3.533	0.747	1.216	44.181
28	6.098E	1.578	2.982	6.276	5.258	7.331	0.540	0.441	3.142	0.693	2.439	26.935
29	6.098E		2.805	5.921	4.395	12.451	0.525	0.415	5.578	4.609	2.494	17.802
30	6.098E		2.876	5.332	4.033	7.486	0.457	0.394	3.675	3.846	2.564	12.835
31	6.098E		2.721		3.871		0.440	0.376		2.994		9.929
MEAN	6.280	3.944	4.666	9.306	4.798	2.502	1.363	0.801	6.482	1.766	1.312	12.799
INCEES	2.613	1.483	1.942	3.748	1.997	1.008	0.567	0.333	2.611	0.735	0.529	5.326
STA AV	1.472	2.623	2.896	2.306	1.834	3.293	0.655	0.472	0.803	0.348	1.627	3.030

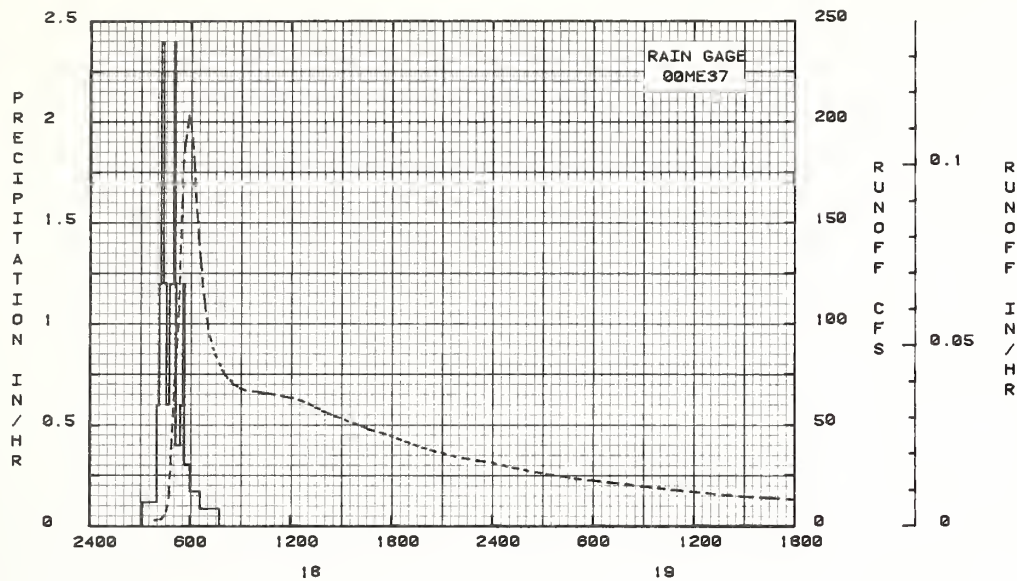
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.013425. Records are good. Some periods of winter records are affected by ice on control, no adjustments were made for these records. STA AV based on 6 yr (1968-73) record period.

1973 SELECTED RUNOFF EVENT			KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 18 - 19, 1973										
RG 00ME37			RG 00ME37							
9-18	0.0	0.007	9-18	310	0.0	0.0	9-18	355	3.148	0.0
				400	0.1200	0.10		405	3.297	0.0002
				410	0.5999	0.20		415	3.610	0.0003
				415	1.2001	0.30		420	4.116	0.0005
				420	2.4000	0.50		425	4.659	0.0007
WATERSHED CONDITIONS: Mixed cover area, 4-yr rotation of corn, small grain, small grain and native grasses, most of which is heavily contoured. Vegetative cover: Corn, 20.4%; small grain, 20.0%; pasture, 4.0%; hay, 12.9%; vegetables, 0.7%; idle, 0.6%; orchard, 0.5%; homesteads and roads, 3.1%; forest, 37.8%.				425	2.4000	0.70		430	5.663	0.0009
				430	1.2001	0.80		435	7.524	0.0012
				435	1.2001	0.90		440	10.321	0.0017
				445	0.5999	1.00		445	15.996	0.0023
				450	1.2001	1.10		455	43.050	0.0050
				455	1.1999	1.20		500	58.496	0.0074
				500	1.2001	1.30		505	71.820	0.0104
				505	2.4000	1.50		510	81.283	0.0139
				510	1.2001	1.60		515	92.711	0.0181
				525	0.4000	1.70		520	108.882	0.0227
				535	0.6000	1.80		525	135.435	0.0284
				540	1.2001	1.90		530	160.526	0.0355
				600	0.3000	2.00		535	177.615	0.0432
				635	0.1714	2.10		540	188.445	0.0516
				745	0.0857	2.20		545	193.862	0.0608
							550	199.607	0.0698	
							555	203.437	0.0791	
							600	201.522	0.0888	
							605	195.777	0.0979	
							610	186.640	0.1067	
							615	175.810	0.1154	
							620	163.922	0.1232	
							625	154.047	0.1305	
							630	142.892	0.1376	
							635	133.944	0.1440	
							640	126.586	0.1500	
							645	118.236	0.1558	
							650	112.766	0.1611	
							655	106.292	0.1662	
							700	102.408	0.1712	
							705	97.513	0.1758	
							710	93.912	0.1802	
							715	91.511	0.1846	
							720	87.978	0.1888	
							725	86.848	0.1928	
							730	84.586	0.1969	
							735	83.455	0.2007	
							745	80.197	0.2048	
							750	79.111	0.2084	
							755	76.983	0.2120	
							800	75.942	0.2157	
							805	74.901	0.2192	
							815	72.818	0.2261	
							825	71.820	0.2294	
							830	70.822	0.2329	
							835	69.825	0.2361	
							850	68.827	0.2393	
							900	67.829	0.2425	
							920	66.875	0.2456	
							1010	65.920	0.2487	
							1100	64.996	0.2518	
							1135	64.011	0.2548	
							1210	63.057	0.2577	
							1230	62.144	0.2607	
							1250	61.232	0.2636	
							1305	60.320	0.2663	
							1320	59.408	0.2691	
							1330	58.496	0.2719	
							1345	57.625	0.2747	
							1355	56.755	0.2773	
							1425	55.014	0.2799	
							1440	54.143	0.2824	
							1455	53.314	0.2849	
							1515	52.484	0.2874	
							1525	51.655	0.2898	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.

1973 SELECTED RUNOFF EVENT			KLINGERSTOWN, PENNSYLVANIA			WATERSEED WE-38		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
								Rate
								(cfs)
								Acc.
								(inches)
EVENT OF SEPTEMBER 18 - 19, 1973 (CONTINUED)								
				9-18			1545	50.825
							1600	49.996
							1615	49.206
							1630	48.417
							1640	47.628
							1700	46.838
							1720	46.049
							1740	45.299
							1755	44.549
							1805	43.799
							1820	43.050
							1835	42.300
							1850	41.589
							1905	40.877
							1920	40.166
							1935	39.445
							1950	38.744
							2005	38.071
							2020	37.398
							2040	36.724
							2100	36.051
							2115	35.378
							2140	34.742
							2150	34.106
							2215	33.470
							2240	32.834
							2305	32.198
							2335	31.598
							2400	30.998
				9-19			15	30.399
							40	29.799
							55	29.199
							115	28.635
							135	28.071
							155	27.507
							210	26.943
							235	26.379
							255	25.850
							315	25.320
							340	24.791
							405	24.262
							435	23.732
							455	23.237
							515	22.742
							555	22.246
							625	21.751
							655	21.255
							730	20.793
							805	20.331
							825	19.868
							855	19.406
							925	18.944
							955	18.514
							1015	18.084
							1045	17.654
							1120	17.224
							1150	16.794
							1220	16.395
							1245	15.996
							1315	15.597
							1345	15.199
							1415	14.800
							1450	14.423
							1530	14.045
							1615	13.680
							1705	13.315
							1815	12.962
							1925	12.608
							2020	12.267

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000559.



EVENT OF SEPTEMBER 18 - 19, 1973
KLINGERSTOWN, PENNSYLVANIA WATERSHED WE-38

MCCREDIE, MISSOURI STATION RESERVOIR W-1

LOCATION: Callaway County, Mo.; 1 mi. S.E. of McCredie; Crows Fork Creek, Auxvasse Watershed, Missouri River Basin.
Lat. 38 deg. 56 min. 54 sec. N.; Long. 91 deg. 54 min. 37 sec. W.

AREA: 153.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							MCCREDIE, MISSOURI STATION RESERVOIR W-1												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	2.64	1.48	10.50	2.69	4.26	2.13	7.59	1.30	5.79	3.73	2.61	3.31	48.03					
	Q	2.092	1.128	8.265	1.651	0.532	0.0	0.726	0.0	0.058	0.876	1.200	2.515	19.043					
STA AV	P	1.45	1.54	2.83	3.68	4.29	4.42	3.68	2.73	3.98	3.58	2.04	1.80	36.01					
	Q	0.564	0.664	1.273	1.147	0.888	0.983	0.517	0.122	0.517	1.070	0.429	0.448	8.621					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		3- 6	0.564	3- 6	0.451	3- 6	0.716	3-10	1.179	3- 6	1.757	3- 6	2.608	3- 6	2.682	3- 6	5.127		
MAXIMUMS FOR PERIOD OF RECORD																			
		10-13	2.269	10-13	1.365	10-13	2.236	10- 4	3.960	10- 4	7.000	10- 4	7.775	10- 3	8.090	10- 2	8.840		
		1968		1968		1968		1941		1941		1941		1941		1941			

NOTES: Watershed conditions: 40% Pasture and meadow; 39% corn; 4% soybeans; 11% small grains and 6% roads and farmsteads. Precipitation Thiessen average of 4 recording gages and 1 non-recording gage. Precipitation and runoff records began Jan. 1, 1941. Runoff amounts, or rates, which are reported as inches or inches per hour, respectively, were computed with a constant watershed area of 153 acres, including reservoir surface area. Previous published runoff amounts and rates were computed with a variable watershed area equal to the total area less the reservoir surface area, which was a function of reservoir stage. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 25.1-13. For long-time precipitation records, see National Weather Service records at Columbia, Missouri (1890-73).

1973 DAILY AIR TEMPERATURE (degrees F)														MCCREDIE, MISSOURI STATION RESERVOIR W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	34 22	53 47	56 39	48 44	77 60	84 56	84 64	77 57	89 69	71 59	64 34	54 33			
2	40 17	46 31	48 42	49 42	70 47	84 66	91 66	76 56	83 70	77 54	61 38	67 39			
3	37 27	48 28	51 45	47 40	63 41	85 62	91 74	80 54	80 71	80 64	50 33	87 48			
4	35 17	61 32	50 46	45 38	70 39	76 66	89 66	85 61	79 70	81 58	48 39	62 36			
5	17 12	36 32	53 44	59 35	75 47	74 62	86 66	84 63	79 66	65 42	43 29	37 27			
6	14 5	37 35	54 46	66 44	72 54	78 57	88 61	82 61	80 59	65 48	41 25	30 22			
7	26 12	35 23	60 42	66 44	71 59	83 56	88 62	90 64	80 57	80 61	52 38	32 14			
8	26 18	22 11	63 37	54 42	72 55	85 58	91 64	90 74	86 66	84 64	50 39	36 17			
9	23 4	29 3	57 40	31 30	74 53	84 63	82 70	90 68	84 67	82 56	39 28	36 27			
10	18 -1	35 10	62 45	38 27	74 56	88 64	86 70	89 68	77 69	80 64	42 19	30 18			
11	19 6	38 19	62 45	60 26	75 54	89 69	85 65	88 66	78 62	78 65	49 27	48 22			
12	30 1	37 24	68 38	58 36	70 48	89 69	88 61	91 70	76 52	66 56	67 40	36 27			
13	41 20	45 34	67 47	57 31	62 45	87 68	90 65	85 68	73 61	72 57	66 52	49 30			
14	47 29	44 26	71 53	57 36	62 45	85 68	90 67	80 64	74 60	76 48	75 58	31 28			
15	46 34	26 19	68 43	69 48	66 42	89 71	81 58	81 58	78 52	79 53	74 49	31 26			
16	60 32	23 8	54 39	52 43	68 49	92 74	84 60	82 63	78 57	79 46	55 35	26 20			
17	59 44	27 8	44 31	70 38	70 41	91 65	86 57	88 64	57 52	65 46	61 36	27 15			
18	58 48	38 25	53 28	71 52	77 42	88 63	92 65	90 67	64 43	73 49	63 44	33 26			
19	49 33	38 26	52 39	68 58	78 59	87 64	88 71	90 72	64 45	79 51	54 38	32 22			
20	44 31	46 28	46 36	75 60	81 52	80 58	89 70	86 72	62 57	79 47	64 54	22 4			
21	34 29	44 32	50 30	78 66	82 67	82 58	88 68	86 59	82 60	75 45	59 37	20 -4			
22	41 31	51 21	54 30	71 55	78 63	80 59	82 68	83 60	82 68	77 49	67 40	39 10			
23	34 24	53 29	56 43	73 58	76 56	84 54	85 70	87 64	79 63	80 53	62 40	40 21			
24	52 29	60 29	54 42	73 51	80 50	87 63	86 68	87 66	80 62	81 57	60 48	46 36			
25	59 30	58 38	54 46	66 53	74 53	84 68	83 68	95 68	80 68	81 53	50 38	42 36			
26	51 37	32 30	57 43	63 48	80 56	89 72	82 66	94 67	83 69	70 43	55 40	36 33			
27	53 36	34 30	62 38	58 46	76 62	86 58	87 63	93 71	82 67	66 50	54 45	34 28			
28	50 22	57 26	59 47	66 38	68 55	81 58	87 68	93 69	79 68	56 42	50 31	49 26			
29	27 9		55 49	74 51	68 61	79 61	89 67	91 67	75 53	46 44	57 27	44 25			
30	45 15		60 40	72 63	72 58	83 58	84 66	89 66	74 60	60 33	60 39	30 20			
31	52 37		66 48		78 52		77 61	88 68		59 46		7 2			
AV.	39 23	41 25	57 41	61 45	73 52	84 63	86 66	87 65	77 61	73 52	56 38	38 24			
MEAN	31.2	33.2	49.2	53.0	62.6	73.7	76.1	75.9	69.4	62.4	47.2	31.1			
STA AV	39 20	43 23	52 30	67 43	75 52	83 61	88 65	88 63	81 55	70 45	54 33	41 24			

NOTES: Temperature data taken daily with the maximum and minimum thermometers, except on weekends and holidays, when data taken from hygrothermograph charts. The recording period is from 1700 of the previous day to 1700 of the day on which values are recorded. STA AV based on 33 yr (1941-1973) record period.

1973	DAILY PRECIPITATION (inches)					MCCREDIE, MISSOURI		STATION RESERVOIR W-1				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.52	0.53	0.0	0.67	0.0	0.08	0.0	0.0	0.0	0.0	0.0
2	0.0	0.01	0.08	0.0	0.0	0.05	0.24	0.0	0.28	0.0	0.0	0.0
3	0.91	0.0	0.0	0.0	0.0	0.08	0.0	0.0	1.66	0.45	0.0	0.76
4	0.0	0.0	0.65	0.0	0.0	0.64	0.22	0.0	0.21	0.30	0.0	1.05
5	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	2.68	0.0	0.94	0.0	0.0	0.0	0.0	0.11	0.0	0.0
7	0.06	0.10	0.02	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.02	0.0	0.0	0.68	0.03	0.0	0.0	0.0	1.12	0.0	0.0	0.0
9	0.0	0.0	0.05	0.25	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0
10	0.0	0.0	1.69	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0
12	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.38	0.0	0.05
13	0.0	0.26	0.90	0.0	0.0	0.21	0.0	0.66	0.02	0.12	0.0	0.02
14	0.0	0.0	0.08	0.66	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.04
15	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.01
16	0.0	0.0	0.0	0.18	0.0	0.10	0.0	0.38	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.45	0.0	0.0	0.0
18	0.73	0.04	0.0	0.0	0.0	0.60	0.03	0.0	0.0	0.0	0.0	0.05
19	0.0	0.04	0.12	0.12	0.0	0.30	0.09	0.0	0.0	0.0	0.0	0.68
20	0.0	0.0	0.23	0.0	0.0	0.0	3.00	0.0	0.10	0.0	0.64	0.0
21	0.71	0.0	0.0	0.31	0.31	0.0	0.37	0.0	0.0	0.0	0.05	0.0
22	0.03	0.0	0.0	0.11	0.14	0.0	0.55	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	1.31	0.0	0.96	0.0	0.0	0.03
24	0.0	0.0	1.09	0.0	0.04	0.0	0.54	0.0	0.01	0.0	0.88	0.24
25	0.0	0.0	0.50	0.0	0.0	0.0	0.04	0.0	0.10	0.0	0.20	0.0
26	0.0	0.0	0.0	0.0	0.12	0.03	0.0	0.0	0.0	0.0	0.41	0.0
27	0.04	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.52	0.16	0.0
28	0.13	0.0	0.18	0.0	0.05	0.0	0.0	0.0	0.66	0.10	0.0	0.0
29	0.0	0.0	0.30	0.0	0.12	0.0	0.54	0.09	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.03	0.21	0.0	0.0	0.35
31	0.02	0.0	1.30	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.03
TOTAL	2.64	1.48	10.50	2.69	4.26	2.13	7.59	1.30	5.79	3.73	2.61	3.31
STA AV	1.45	1.54	2.83	3.68	4.29	4.42	3.68	2.73	3.98	3.58	2.04	1.80

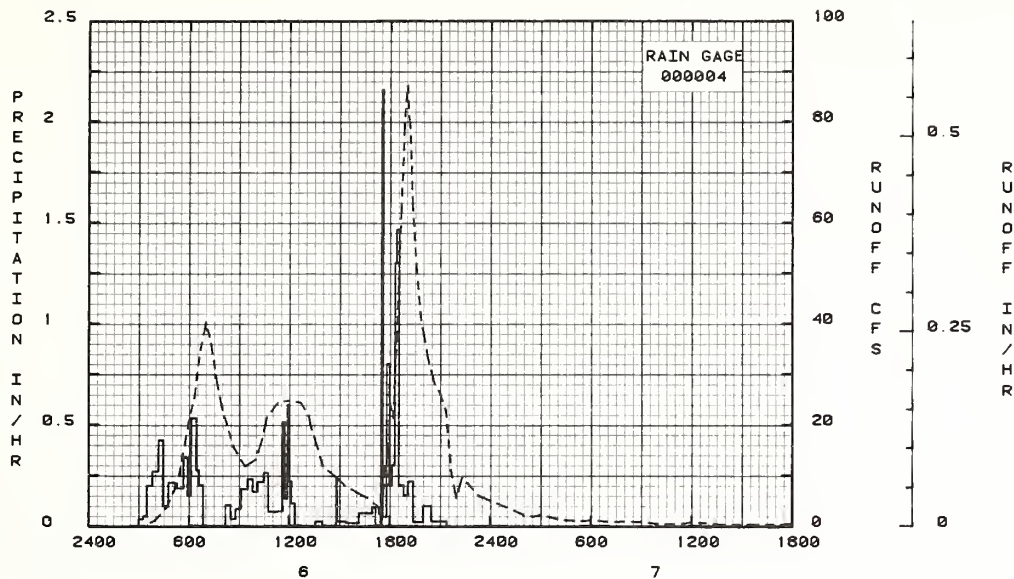
NOTES: Precipitation data are Thiessen weighted values for 4 recording rain gages and 1 non-recording rain gage.
STA AV values are for 33 yr (1941-1973) record period.

1973	MEAN DAILY DISCHARGE (cfs)					MCCREDIE, MISSOURI		STATION RESERVOIR W-1				
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.081	3.014	0.392	0.760	0.161	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.010	0.477	0.646	0.104	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	2.542	0.098	0.255	0.026	0.0	0.0	0.0	0.0	0.122	0.009	0.0	0.457
4	0.112	0.067	2.618	0.0	0.0	0.0	0.0	0.0	0.0	0.407	0.0	8.585
5	0.463	0.0	0.826	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.515
6	0.343	0.0	16.346	0.0	0.079	0.0	0.0	0.0	0.0	0.0	0.0	0.113
7	0.103	0.0	0.891	0.0	2.916	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.110	0.226	0.258	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	2.870	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	9.999	0.771	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.845	0.154	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.353	0.121	0.016	0.0	0.0	0.0	0.0	0.0	1.725	0.0	0.0
13	0.0	2.700	3.433	0.0	0.0	0.0	0.0	0.0	0.0	2.360	0.0	0.0
14	0.0	0.521	1.639	1.332	0.0	0.0	0.0	0.0	0.0	0.541	0.0	0.0
15	0.0	0.023	0.081	0.776	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0
16	0.0	0.0	0.0	2.435	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.164	0.0	0.0	0.145	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	4.081	0.0	0.0	0.039	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.532	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.129	0.0	0.0	0.0	0.0	0.0	0.742	0.0	0.0	0.0	0.530	0.0
21	3.220	0.0	0.0	0.023	0.0	0.0	0.125	0.0	0.0	0.0	0.388	0.0
22	1.048	0.0	0.0	0.892	0.0	0.0	0.022	0.0	0.0	0.0	0.0	0.0
23	0.089	0.0	0.0	0.043	0.0	0.0	2.078	0.0	0.112	0.0	0.0	0.011
24	0.063	0.0	2.388	0.0	0.0	0.0	1.202	0.0	0.0	0.0	0.783	5.118
25	0.0	0.0	4.561	0.0	0.0	0.0	0.036	0.0	0.0	0.0	3.140	0.975
26	0.0	0.0	0.126	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.021	0.395
27	0.0	0.0	0.041	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.423	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.137	0.0	0.368	0.0
29	0.0	0.0	1.203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.059	0.0
30	0.0	0.0	0.114	0.0	0.0	0.0	0.438	0.0	0.0	0.0	0.0	0.0
31	0.470	0.0	6.493	0.0	0.0	0.0	0.020	0.0	0.0	0.584	0.0	0.0
MEAN	0.4339	0.2590	1.7138	0.3538	0.1103	0.0	0.1505	0.0	0.0124	0.1817	0.2571	0.5216
INCHES	2.092	1.128	8.265	1.651	0.532	0.0	0.726	0.0	0.058	0.876	1.200	2.515
STA AV	0.564	0.664	1.273	1.147	0.888	0.983	0.517	0.122	0.517	1.070	0.429	0.448

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.155557. STA AV values are for 33 yr (1941-73) record period.

1973			MCCREDIE, MISSOURI STATION RESERVOIR W-1							
SELECTED RUNOFF EVENT										
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 6 - 7, 1973										
RG 000004			RG 000004							
3- 6	0.0	0.002	3- 6	300	0.0	0.0	3- 6	300	0.0	0.0
				317	0.0353	0.01		320	0.0	0.0
				329	0.0500	0.02		400	1.179	0.0026
				350	0.2000	0.09		440	3.748	0.0132
				410	0.2700	0.18		520	8.525	0.0397
WATERSHED CONDITIONS:										
40% pasture and meadow, less										
than 1 in. tall; 43% fall										
plowed; 11% small grains,										
4 in. tall; and 6% roads										
and farmstead.										
				427	0.4235	0.30		546	16.397	0.0747
				446	0.0947	0.33		600	20.956	0.1030
				511	0.2160	0.42		620	25.853	0.1535
				540	0.1862	0.51		640	34.864	0.2191
				556	0.3375	0.60		700	40.286	0.3003
				608	0.1500	0.63		720	35.533	0.3822
				626	0.5333	0.79		740	28.371	0.4512
				637	0.2727	0.84		800	22.972	0.5067
				652	0.2000	0.89		840	15.506	0.5899
				813	0.0	0.89		920	11.762	0.6488
				830	0.1059	0.92		1000	13.080	0.7025
				848	0.0333	0.93		1024	17.196	0.7417
				909	0.0857	0.96		1040	21.533	0.7752
				932	0.1826	1.03		1120	24.463	0.8745
				950	0.2333	1.10		1142	24.678	0.9329
				1008	0.1667	1.15		1200	24.836	0.9811
				1030	0.2182	1.23		1240	24.340	1.0873
				1046	0.2625	1.30		1310	21.688	1.1619
				1113	0.0667	1.33		1320	18.908	1.1839
				1138	0.0720	1.36		1344	15.012	1.2278
				1145	0.5143	1.42		1400	11.742	1.2510
				1154	0.1333	1.44		1440	9.876	1.2977
				1158	0.6000	1.48		1520	7.947	1.3362
				1209	0.2182	1.52		1600	6.605	1.3676
				1220	0.1091	1.54		1640	5.469	1.3937
				1334	0.0	1.54		1720	3.735	1.4136
				1400	0.0231	1.55		1730	0.0	1.4156
				1448	0.0	1.55		1738	6.740	1.4185
				1453	0.2400	1.57		1744	11.957	1.4246
				1524	0.0194	1.58		1756	14.785	1.4419
				1610	0.0130	1.59		1800	24.407	1.4504
				1638	0.0643	1.62		1812	21.210	1.4800
				1657	0.0632	1.64		1824	36.886	1.5176
				1710	0.0923	1.66		1840	63.874	1.6047
				1729	0.0	1.66		1850	79.522	1.6821
				1734	2.1597	1.84		1900	87.051	1.7722
				1748	0.0429	1.85		1910	78.498	1.8615
				1757	0.8000	1.97		1920	62.281	1.9376
				1809	0.2000	2.01		1936	49.714	2.0344
				1817	0.3000	2.05		1948	42.019	2.0938
				1823	1.2999	2.18		2000	37.702	2.1455
				1832	1.4667	2.40		2020	32.053	2.2209
				1850	0.2000	2.46		2040	27.913	2.2856
				1906	0.1500	2.50		2100	26.043	2.3440
				1925	0.2211	2.57		2120	22.924	2.3969
				2000	0.0171	2.58		2140	10.947	2.4334
				2030	0.1000	2.63		2200	5.503	2.4512
				2100	0.0200	2.64		2220	9.700	2.4676
				2125	0.0240	2.65		2240	8.283	2.4871
								2320	5.851	2.5176
							3- 7	2400	4.958	2.5409
								100	3.632	2.5688
								200	2.083	2.5873
								232	1.820	2.5940
								300	2.221	2.6002
								400	1.313	2.6116
								500	0.948	2.6189
								600	1.179	2.6258
								700	0.792	2.6322

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00648. Event precipitation totals for rain gages R-2, R-3, S-6 and R-8 are 2.74, 2.70, 2.69 and 2.70 respectively and the Thiessen average event precipitation is 2.65 inches.



EVENT OF MARCH 6 - 7, 1973
 MCCREDIE, MISSOURI STATION RESERVOIR W-1

COSHOCTON, OHIO WATERSHED 102

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 25 sec. N.; Long. 81 deg. 47 min. 42 sec. W.

AREA: 1.26 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														COSHOCTON, OHIO WATERSHED 102	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	2.18	2.11	4.44	3.98	3.20	4.46	3.35	3.42	1.95	4.77	4.07	2.10	40.03	
	Q	0.0	0.0	0.0	0.0	0.0	0.004	0.000	0.027	0.0	0.0	0.132	0.0	0.163	
STA AV	P	1.85	2.24	3.95	3.37	3.88	4.41	4.16	2.97	2.42	2.39	2.58	2.41	36.63	
	Q	0.042	0.079	0.102	0.055	0.009	0.137	0.159	0.032	0.014	0.009	0.006	0.001	0.646	

ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		8-14	0.242	11-25	0.106	11-25	0.130	11-25	0.132	11-25	0.132	12-30	0.132	12-29	0.132

MAXIMUMS FOR PERIOD OF RECORD															
		6-12	3.640	6-12	1.310	7- 5	1.427	7- 5	2.470	7- 5	2.470	7- 5	2.470	7- 5	2.470
		1957		1957		1969		1969		1969		1969		1969	

NOTES: Watershed conditions: Cover of improved practice alfalfa meadow. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.1-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.1-1 and 26.30-3. Precipitation data from rain gage Y101. Precipitation and runoff records began April 1937. Watershed discontinued Jan. 1, 1947 to Apr. 30, 1957 and Sept. 1, 1957 to March 29, 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1973 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 102	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	1	0.0	0.36	0.0	0.09E	0.0	0.0	0.0	0.01E	0.0	0.45	0.08	0.0		
	2	0.0	0.22	0.0	0.03	0.13	0.0	0.06E	0.0	0.0	0.50E	0.06E	0.0		
	3	0.72	0.03E	0.0	0.03E	0.09	0.05E	0.12E	0.0	0.0	0.0	0.0	0.0		
	4	0.0	0.0	0.0	0.61	0.0 T	0.76E	0.0 T	0.0	0.0	0.35	0.0	0.13		
	5	0.0	0.0	0.49	0.02E	0.0	0.15E	0.0	0.0	0.11E	0.08	0.05E	0.0 T		
	6	0.0 T	0.33	0.0	0.0	0.0	0.47	0.0	0.0	0.49	0.0	0.0	0.0 T		
	7	0.01S	0.0	0.17	0.03E	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	8	0.0	0.35S	0.0	0.24	0.32E	0.0	0.0	0.0	0.0	0.81	0.0	0.0		
	9	0.0	0.0	0.0	0.35	0.03	0.0	0.0	0.21	0.06E	0.0	0.0	0.0		
	10	0.0	0.0	0.08E	0.13S	1.24E	0.0	1.12	0.50	0.0	0.0	0.0	0.0 T		
	11	0.01S	0.0	0.15E	0.0	0.02E	0.0	0.0	0.59	0.0	0.0	0.0	0.02S		
	12	0.0	0.0	0.0 T	0.11S	0.02E	0.71	0.0	0.09	0.0	0.0	0.0	0.0		
	13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.42	0.0	0.36		
	14	0.0	0.38	1.31	0.0	0.0 T	0.0	0.0 T	1.52	0.04E	0.0	0.0	0.0 T		
	15	0.10S	0.32H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0 T		
	16	0.0	0.0	0.34	0.02E	0.09	0.42	0.0	0.0	0.0	0.0	0.03	0.0		
	17	0.0	0.0	0.34S	0.66E	0.0	0.97	0.0	0.45E	0.15E	0.0	0.0	0.0		
	18	0.0	0.0	0.01S	0.10E	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0 T		
	19	0.10	0.0	0.0	0.0	0.28E	0.0	0.0	0.0	0.0	0.0	0.01E	0.0 T		
	20	0.0	0.0 T	0.0	0.0	0.01	0.0	0.49	0.05E	0.0 T	0.0	0.0	0.89H		
	21	0.0	0.06S	0.0	0.0	0.0	0.05E	0.45	0.0	0.0	0.0	0.28	0.0		
	22	0.58	0.02S	0.0 T	0.05	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0		
	23	0.05S	0.0 T	0.0	0.34	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	24	0.0	0.0	0.0	0.0	0.17E	0.57	0.0	0.0	0.0	0.0	0.69	0.0		
	25	0.0	0.0 T	0.16	0.09	0.12E	0.0 T	0.39E	0.0	0.0	0.0	1.15	0.10E		
	26	0.0	0.04S	0.76	0.0	0.0	0.0 T	0.45	0.0	0.0	0.0	0.01E	0.23E		
	27	0.30E	0.0	0.0	1.08E	0.25	0.0 T	0.0	0.0	0.0	0.03E	0.83	0.01E		
	28	0.27E	0.0	0.21E	0.0	0.12	0.27	0.0	0.0	0.0	0.93	0.24	0.0		
	29	0.04S		0.35E	0.0	0.0 T	0.04E	0.0	0.0	0.61	0.40	0.0 T	0.19E		
	30	0.0		0.07	0.0 T	0.27	0.0	0.0	0.0 T	0.0	0.40	0.0	0.08S		
	31	0.0		0.0 T		0.0		0.27	0.0		0.40		0.09S		
TOTAL		2.18	2.11	4.44	3.98	3.20	4.46	3.35	3.42	1.95	4.77	4.07	2.10		
STA AV		1.85	2.24	3.95	3.37	3.88	4.41	4.16	2.97	2.42	2.39	2.58	2.41		

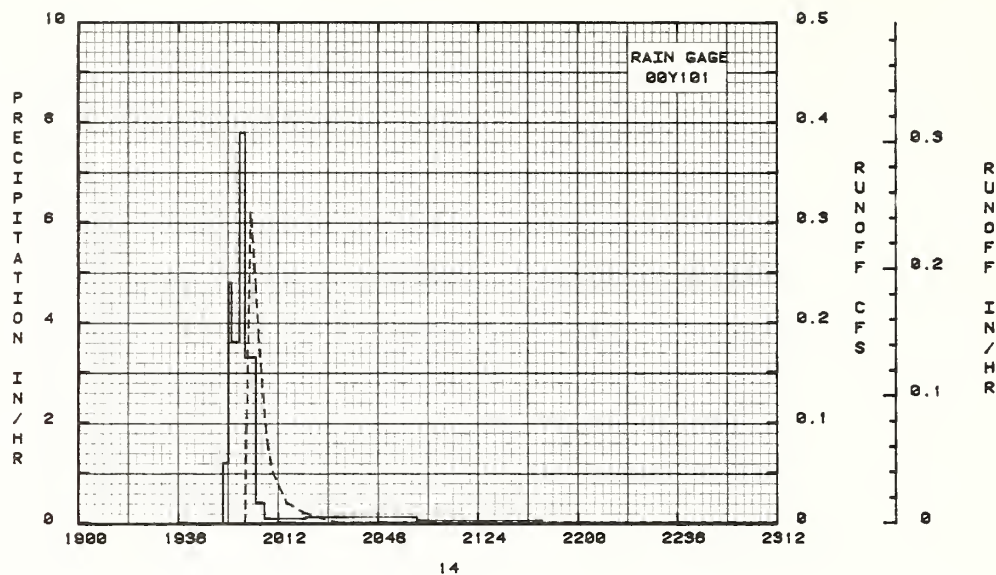
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage Y101. STA AV based on 25 yr period, part-years records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1973 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 102												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0002	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.004	0.000	0.027	0.0	0.0	0.132	0.0
STA AV	0.042	0.079	0.102	0.055	0.009	0.137	0.159	0.032	0.014	0.009	0.006	0.001

NOTES: To convert CFS to IN/DAY, multiply by 18.8902. STA AV based on 25 yr period, part-years records included.

1973 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 102										
ANTECEDENT CONDITIONS			RAINFALL							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 14, 1973										
8-14	RG 00Y101 0.59	0.0	8-14	RG 00Y101 1952	0.0	0.0	8-14	2000	0.0	0.0
				1954	1.1998	0.04		2002	0.307	0.0038
				1955	4.8012	0.12		2004	0.234	0.0113
				1958	3.5999	0.30		2005	0.183	0.0138
				2000	7.7983	0.56		2008	0.085	0.0192
WATERSHED CONDITIONS:				2004	3.3000	0.78		2010	0.050	0.0208
Meadow				2007	0.3998	0.80		2015	0.020	0.0232
				2022	0.0800	0.82		2021	0.010	0.0244
				2032	0.1200	0.84		2033	0.005	0.0255
				2102	0.1200	0.90		2058	0.001	0.0265
				2147	0.0400	0.93		2128	0.0	0.0267

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.7877200.



EVENT OF AUGUST 14, 1973
COSHOCTON, OHIO WATERSHED 102

COSHOCTON, OHIO WATERSHED 123

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 23 sec. N.; Long. 81 deg. 47 min. 20 sec. W.

AREA: 1.37 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								COSHOCTON, OHIO WATERSHED 123											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	2.21	2.29	4.72	4.15	3.43	4.57	3.58	3.23	2.10	5.12	4.12	2.29	41.81					
	Q	0.084	0.063	0.256	0.059	0.269	0.145	0.012	0.008	0.0	0.086	1.269	0.012	2.263					
STA AV	P	2.67	2.40	3.45	3.53	3.81	4.12	4.37	2.80	2.61	2.28	2.67	2.44	37.14					
	Q	0.353	0.375	0.409	0.267	0.137	0.254	0.201	0.067	0.043	0.018	0.064	0.111	2.300					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		11-25	0.479	11-25	0.388	11-25	0.509	11-25	0.665	11-25	0.711	11-24	0.806	11-24	0.817	12-12	1.269		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-12	5.970	6-12	1.370	6-12	1.480	7- 5	2.054	7- 5	2.131	1-21	2.330	1-21	2.330	3- 4	2.660		
		1957		1957		1957		1969		1969		1959		1959		1964			

NOTES: Watershed conditions: Cover of wheat to corn. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.10-6. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.10-1 and 26.30-3. Precipitation data from rain gage Y103. Precipitation and runoff records began Jan. 1939. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1973 DAILY AIR TEMPERATURE (degrees F)														COSHOCTON, OHIO WATERSHED 123													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	39	24	52	34	55	27	69	48	72	52	75	50	81	57	78	65	90	69	67	58	51	42	40	28			
2	36	18	57	35	62	38	51	38	70	56	78	54	83	65	76	62	91	69	74	60	63	41	53	25			
3	48	19	35	30	55	43	47	37	63	42	81	60	85	64	77	58	91	68	75	56	49	35	62	41			
4	50	28	50	29	58	45	44	32	49	34	81	60	82	62	82	60	90	70	79	58	49	33	60	50			
5	30	19	48	34	65	46	42	32	60	35	82	60	78	59	83	63	87	66	64	47	41	35	62	35			
6	19	13	43	36	72	46	61	29	66	41	70	58	81	55	82	61	78	61	70	43	38	24	37	24			
7	20	12	39	30	68	50	57	39	76	56	78	54	85	61	85	65	74	52	73	52	38	24	32	24			
8	21	11	36	11	65	43	49	32	72	55	81	58	88	64	87	65	79	52	73	62	47	28	36	24			
9	23	7	22	9	66	40	58	36	75	54	83	65	88	68	87	67	66	51	74	56	35	25	41	30			
10	23	3	23	6	72	45	37	28	70	50	87	66	84	64	78	69	79	49	74	52	34	25	34	19			
11	22	8	24	7	70	52	41	25	65	46	87	69	74	54	83	63	78	53	76	56	34	20	25	15			
12	28	4	36	7	56	41	45	27	63	46	85	65	72	51	81	66	70	52	75	55	49	28	40	20			
13	36	12	45	20	56	39	43	27	57	44	76	53	86	62	78	67	74	49	68	57	61	45	47	30			
14	38	27	39	32	75	44	52	25	63	44	79	66	86	63	74	62	74	59	68	50	67	57	35	26			
15	36	31	39	13	71	55	68	35	56	38	82	65	79	59	76	60	75	53	75	51	65	49	28	22			
16	42	26	16	4	58	46	68	51	66	37	84	63	78	57	80	62	70	55	56	43	49	30	25	17			
17	56	32	20	-2	57	24	58	46	50	38	81	63	80	56	78	64	75	51	55	40	41	27	23	16			
18	59	37	31	6	33	24	63	53	61	34	82	63	83	59	78	64	59	48	60	40	47	30	22	13			
19	54	28	42	25	39	26	68	55	60	44	84	63	84	59	80	62	63	34	61	31	54	42	36	22			
20	32	20	39	29	40	22	76	57	60	48	84	61	78	69	78	64	66	45	58	46	56	40	43	26			
21	44	17	33	16	48	20	79	56	69	48	79	64	70	66	69	56	70	45	60	41	58	50	26	17			
22	56	34	25	11	35	24	73	59	70	50	80	61	78	65	69	50	81	60	69	43	60	41	27	14			
23	38	25	32	20	47	23	58	48	70	54	79	60	81	62	74	48	79	60	71	43	54	41	32	24			
24	35	21	31	20	61	25	65	42	65	56	80	56	81	65	77	59	77	50	72	49	59	46	37	29			
25	48	22	45	19	54	41	50	45	70	54	83	57	81	68	81	58	82	55	74	45	56	40	51	35			
26	53	29	41	23	49	42	61	45	72	54	84	61	80	68	85	69	80	61	66	50	57	40	57	45			
27	48	40	39	23	56	32	53	39	70	56	75	59	81	68	90	69	84	57	64	40	64	57	48	35			
28	44	20	46	20	62	37	50	40	72	56	71	56	81	65	90	72	81	66	54	44	61	34	35	27			
29	23	10			60	35	57	34	72	56	75	56	75	57	90	72	74	57	51	40	34	30	41	24			
30	28	7			58	46	68	48	66	53	77	51	80	57	90	66	72	53	51	38	52	30	31	17			
31	41	15			63	43			68	50			78	62	87	66			51	47			30	24			
AV.	38	20	37	20	58	38	57	40	66	48	80	60	81	62	81	63	77	56	66	48	51	36	39	26			
MEAN	28.9		28.2		47.6		48.7		56.8		70.0		71.2		71.9		66.4		57.3		43.6		32.2				
STA AV	37	20	35	20	52	34	58	41	69	51	77	59	80	63	79	62	75	56	61	44	48	34	41	26			

NOTES: Temperature data based on records at North Appalachian Experimental Watershed. STA AV is for 35 yr (1939-73) record period.

1973 DAILY PRECIPITATION (inches) COSHOCTON, OHIO WATERSHED 123												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.41	0.0	0.05	0.0	0.0	0.0	0.01E	0.0	0.65	0.04	0.0
2	0.0	0.27	0.0	0.05	0.13	0.0	0.06E	0.0	0.0	0.48	0.06E	0.0
3	0.82	0.02E	0.0	0.05	0.09	0.09	0.11E	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.65	0.0 T	0.77	0.0 T	0.0	0.0	0.43	0.0	0.16
5	0.0	0.0	0.54E	0.02E	0.0	0.10	0.0	0.0	0.14	0.10	0.05E	0.0 T
6	0.0 T	0.38	0.0	0.0	0.0	0.52	0.0	0.0	0.47	0.0	0.0	0.0 T
7	0.0 T	0.0	0.19	0.04E	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.29S	0.0	0.28	0.32E	0.0	0.0	0.0	0.0	0.74	0.0	0.0
9	0.0	0.0	0.0	0.31	0.03	0.0	0.0	0.20	0.08E	0.0	0.0	0.0
10	0.0	0.0	0.10E	0.05S	1.32E	0.0	1.07	0.45E	0.0	0.0	0.0	0.0 T
11	0.0 T	0.0	0.20E	0.0	0.02	0.0	0.0	0.61	0.0	0.0	0.0	0.01S
12	0.0	0.0	0.0 T	0.16S	0.02	0.61	0.0	0.10E	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.44	0.0	0.40
14	0.0	0.45E	1.44	0.0	0.0 T	0.0	0.0 T	1.46	0.05E	0.0	0.0	0.0 T
15	0.10S	0.36M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0 T
16	0.0	0.0	0.35	0.02E	0.10	0.45	0.0	0.0	0.0	0.0	0.03	0.0
17	0.0	0.0	0.14S	0.69E	0.0	0.96	0.0	0.35E	0.18E	0.0	0.0	0.0
18	0.0	0.0	0.06S	0.12E	0.01E	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0 T
19	0.15	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.02E	0.01S
20	0.0	0.0 T	0.0	0.0	0.01	0.0	0.56	0.05E	0.0 T	0.0	0.0	0.96S
21	0.0	0.04S	0.0	0.0	0.0	0.05E	0.44	0.0	0.0	0.0	0.33	0.0
22	0.54E	0.03S	0.0 T	0.05	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0
23	0.05S	0.0 T	0.0	0.36	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.19E	0.64	0.0	0.0	0.0	0.0	0.73	0.0
25	0.0	0.0 T	0.17E	0.08	0.15E	0.0 T	0.49E	0.0	0.0	0.0	1.21	0.10E
26	0.0	0.04S	0.83	0.0	0.0	0.0 T	0.58	0.0	0.0	0.0	0.05E	0.19
27	0.31E	0.0	0.0	1.17E	0.30	0.0 T	0.0	0.0	0.0	0.03E	0.53Z	0.03E
28	0.22S	0.0	0.23	0.0	0.11	0.33	0.0	0.0	0.0 T	1.00	0.52Z	0.0
29	0.02S		0.41E	0.0	0.0 T	0.05E	0.0	0.0	0.63	0.39	0.0 T	0.22E
30	0.0		0.06	0.0 T	0.23	0.0	0.0	0.0 T	0.0	0.43	0.0	0.10S
31	0.0		0.0 T		0.0		0.27	0.0		0.43		0.11S
TOTAL	2.21	2.29	4.72	4.15	3.43	4.57	3.58	3.23	2.10	5.12	4.12	2.29
STA AV	2.67	2.40	3.45	3.53	3.81	4.12	4.37	2.80	2.61	2.28	2.67	2.44

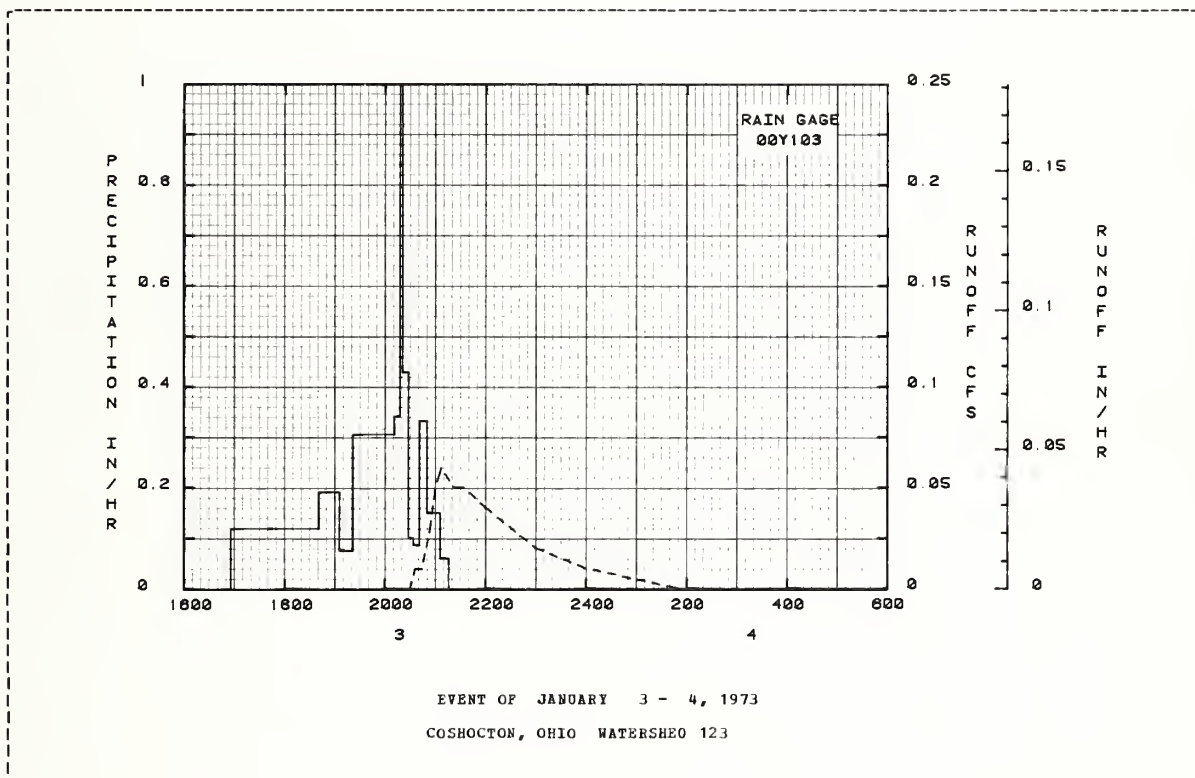
NOTES: Precipitation amounts are for rain gage Y103. STA AV based on 35 yr period. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1973 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 123												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.001	0.0	0.0	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.015	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0 T	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0 T
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.006	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.041	0.0
26	0.0	0.0	0.002	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.022	0.0
28	0.0	0.0	0.0	0.001	0.0	0.0 E	0.0	0.0	0.0	0.005	0.004	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0002	0.0001	0.0005	0.0001	0.0005	0.0003	0.0	0.0	0.0	0.0002	0.0024	0.0
INCHES	0.084	0.063	0.256	0.059	0.269	0.145	0.012	0.008	0.0	0.086	1.269	0.012
STA AV	0.353	0.375	0.409	0.267	0.137	0.254	0.201	0.067	0.043	0.018	0.064	0.111

NOTES: To convert CFS to IN/DAY, multiply by 17.3735. STA AV based on 35 yr period.

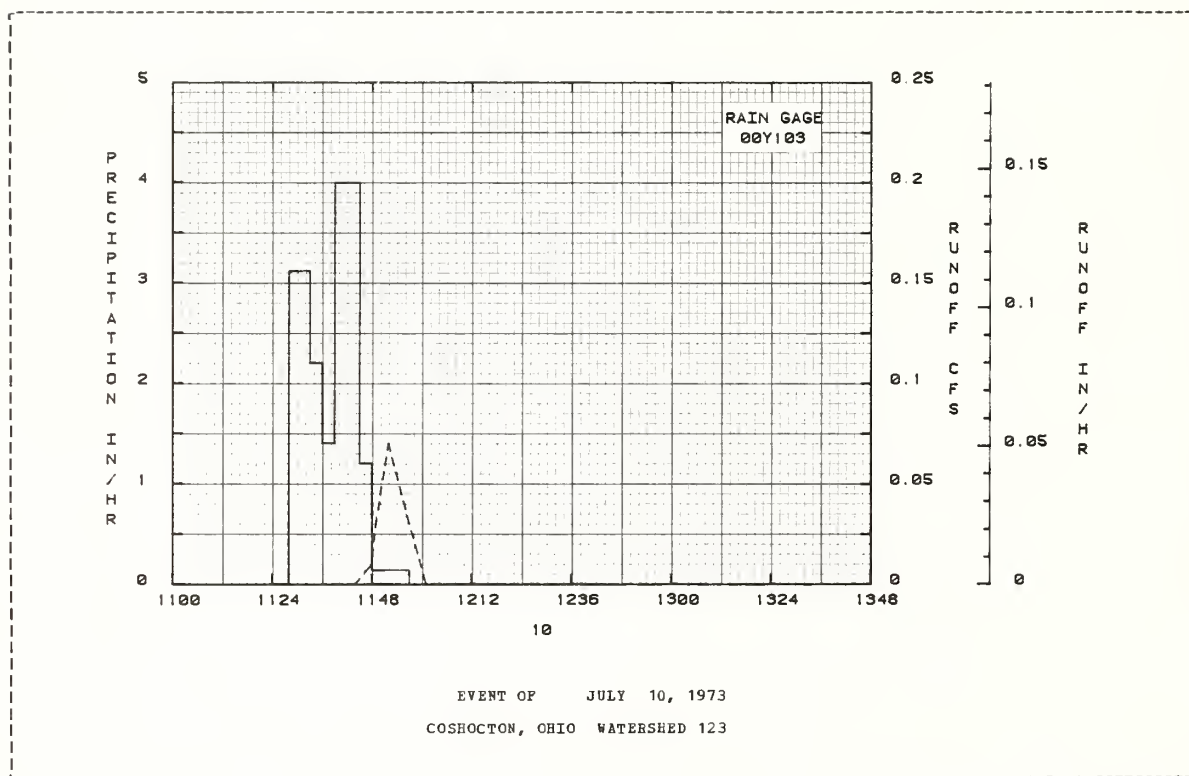
1973 SELECTED RUNOFF EVENT			COSHOCTON, OHIO WATERSHED 123							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JANUARY 3 - 4, 1973										
1- 3	BG 00Y103 0.0	0.0	1- 3	BG 00Y103 1656	0.0	0.0	1- 3	2010	0.0	0.0
				1741	0.1200	0.09		2024	0.0	0.0
				1841	0.1200	0.21		2030	0.002	0.0001
				1906	0.1920	0.29		2036	0.009	0.0005
				1922	0.0750	0.31		2044	0.012	0.0015
WATERSHED CONDITIONS: Standing corn stalks				2011	0.3061	0.56		2054	0.030	0.0040
				2018	0.3429	0.60		2100	0.053	0.0070
				2021	0.9999	0.65		2107	0.060	0.0118
				2028	0.4286	0.70		2122	0.053	0.0220
				2034	0.1000	0.71		2134	0.046	0.0292
				2041	0.0857	0.72		2200	0.041	0.0428
				2050	0.3333	0.77		2300	0.020	0.0649
				2106	0.1500	0.81		2400	0.009	0.0754
				2116	0.0600	0.82	1- 4	150	0.002	0.0827
								410	0.0	0.0844

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.72389455.



1973			SELECTED RUNOFF EVENT					COSHOCOTON, OHIO WATERSHED 123				
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 10, 1973												
RG 00Y103			RG 00Y103									
7-10	0.0	0.0	7-10	1128	0.0	0.0	7-10	1136	0.0	0.0		
				1133	3.1201	0.26		1137	0.002	0.0000		
				1136	2.2000	0.37		1141	0.004	0.0001		
				1139	1.3998	0.44		1144	0.004	0.0003		
				1145	4.0001	0.84		1148	0.006	0.0005		
WATERSHED CONDITIONS:												
No-till corn				1148	1.2000	0.90		1149	0.030	0.0008		
			1157	0.1334	0.92			1152	0.067	0.0024		
								1157	0.030	0.0055		
								1201	0.004	0.0063		
								1216	0.002	0.0068		
								1228	0.0	0.0070		
								1238	0.0	0.0070		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.72389455.



COSHOCTON, OHIO WATERSHED 109

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 22 min. 11 sec. N.; long. 81 deg. 47 min. 39 sec. W.

AREA: 1.69 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO WATERSHED 109				
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1973	P	2.18	1.96	4.33	3.95	3.38	4.13	3.60	3.37	2.10	5.03	4.16	2.06	40.25
	Q	0.001	0.0	0.007	0.0	0.0	0.389	0.439	0.425	0.0	0.000	0.008	0.0	1.209
STA AV	P	2.57	2.26	3.38	3.46	3.82	4.11	4.40	2.75	2.63	2.23	2.59	2.33	36.53
	Q	0.064	0.179	0.116	0.045	0.091	0.253	0.283	0.146	0.043	0.010	0.001	0.016	1.246
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time		Interval				
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	8 Days
														Vol.
1973		8-14	2.488	8-14	0.323	8-14	0.323	8-14	0.323	8-13	0.323	8-12	0.323	9-30 0.425
MAXIMUMS FOR PERIOD OF RECORD														
		5-17	4.340	6-29	0.820	6-28	1.090	7- 5	1.416	3- 4	1.920	3- 4	2.170	3- 3 2.550
		1941		1941		1940		1969		1963		1963		1963 1963

NOTES: Watershed conditions: Cover of wheat to corn. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.13-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.13-1 and 26.30-3. Precipitation data from rain gage Y102. Precipitation and runoff records began Nov. 1938. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1973 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 109													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.40	0.0	0.10E	0.0	0.0	0.0	0.01E	0.0	0.50	0.06	0.0		1	0.0	0.24	0.0	0.03	0.15	0.0	0.06E	0.0	0.50	0.06E	0.0		
2	0.0	0.24	0.0	0.03	0.15	0.0	0.06E	0.0	0.0	0.50	0.06E	0.0		2	0.81	0.02E	0.0	0.03E	0.08	0.07	0.11E	0.0	0.0	0.0	0.0		
3	0.81	0.02E	0.0	0.03E	0.08	0.07	0.11E	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.63	0.0 T	0.67	0.0 T	0.0	0.0	0.38	0.0	0.15	
4	0.0	0.0	0.0	0.63	0.0 T	0.67	0.0 T	0.0	0.0	0.38	0.0	0.15		4	0.0	0.0	0.52E	0.02E	0.0	0.13	0.0	0.0	0.14E	0.10	0.05E	0.0 T	
5	0.0	0.0	0.52E	0.02E	0.0	0.13	0.0	0.0	0.14E	0.10	0.05E	0.0 T		5	0.0 T	0.37	0.0	0.0	0.0	0.55	0.0	0.0	0.46	0.0	0.0	0.0 T	
6	0.0 T	0.37	0.0	0.0	0.0	0.55	0.0	0.0	0.46	0.0	0.0	0.0		6	0.0 T	0.0	0.19	0.05E	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0 T	0.0	0.19	0.05E	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		7	0.0	0.21S	0.0	0.19	0.33E	0.0	0.0	0.0	0.73	0.0	0.0	0.0	
8	0.0	0.21S	0.0	0.19	0.33E	0.0	0.0	0.0	0.0	0.73	0.0	0.0		8	0.0	0.0	0.0	0.34	0.05	0.0	0.0	0.19	0.05E	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.34	0.05	0.0	0.0	0.19	0.05E	0.0	0.0	0.0		9	0.0	0.0	0.10E	0.07S	1.32E	0.0	1.17	0.40	0.0	0.0	0.0	0.0 T	
10	0.0	0.0	0.10E	0.07S	1.32E	0.0	1.17	0.40	0.0	0.0	0.0	0.0 T		10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	
11	0.01S	0.0	0.13E	0.0	0.01E	0.0	0.0	0.60	0.0	0.0	0.0	0.02S		11	0.0	0.0	0.0 T	0.10S	0.02E	0.69	0.0	0.10	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0 T	0.10S	0.02E	0.69	0.0	0.10	0.0	0.0	0.0	0.0		12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02S	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.47	0.0	0.36		13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	
14	0.0	0.41E	1.27	0.0	0.0 T	0.0	0.0	0.0 T	1.63	0.04E	0.0	0.0 T		14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	
15	0.10S	0.23M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.63	0.0 T		15	0.10S	0.23M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	
16	0.0	0.0	0.33	0.02E	0.10	0.43E	0.0	0.0	0.0	0.0	0.02	0.0		16	0.0	0.0	0.33	0.02E	0.10	0.43E	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.17S	0.66E	0.0	0.87	0.0	0.39	0.18E	0.0	0.0	0.0		17	0.0	0.0	0.17S	0.66E	0.0	0.87	0.0	0.39	0.18E	0.0	0.0	0.0	
18	0.0	0.0	0.03S	0.13E	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0 T		18	0.0	0.0	0.03S	0.13E	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0 T	
19	0.12	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.02E	0.0 T		19	0.12	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.02E	0.0 T	
20	0.0	0.0 T	0.0	0.0	0.01	0.0	0.56	0.05E	0.0 T	0.0	0.0	0.90M		20	0.0	0.0 T	0.0	0.0	0.01	0.0	0.56	0.05E	0.0 T	0.0	0.0	0.90M	
21	0.0	0.04S	0.0	0.0	0.0	0.05E	0.38	0.0	0.0	0.0	0.30	0.0		21	0.0	0.04S	0.0	0.0	0.0	0.05E	0.38	0.0	0.0	0.0	0.0	0.0	
22	0.60E	0.02S	0.0 T	0.05	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0		22	0.60E	0.02S	0.0 T	0.05	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	
23	0.03S	0.0 T	0.0	0.38	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		23	0.03S	0.0 T	0.0	0.38	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.17E	0.31	0.0	0.0	0.0	0.0	0.75	0.0		24	0.0	0.0	0.0	0.0	0.17E	0.31	0.0	0.0	0.0	0.0	0.75	0.0	
25	0.0	0.0 T	0.16	0.06	0.16	0.0 T	0.50E	0.0	0.0	0.0	1.10	0.10		25	0.0	0.0 T	0.16	0.06	0.16	0.0 T	0.50E	0.0	0.0	0.0	1.10	0.10	
26	0.0	0.02S	0.76	0.0	0.0	0.0 T	0.55	0.0	0.0	0.0	0.02E	0.19		26	0.0	0.02S	0.76	0.0	0.0	0.0 T	0.55	0.0	0.0	0.0	0.02E	0.19	
27	0.31	0.0	0.0	1.09E	0.26	0.0 T	0.0	0.0	0.0	0.03E	0.92	0.01E		27	0.31	0.0	0.0	1.09E	0.26	0.0 T	0.0	0.0	0.0	0.03E	0.92	0.01E	
28	0.20S	0.0	0.20	0.0	0.12	0.31	0.0	0.0	0.0 T	1.02	0.23	0.0		28	0.20S	0.0	0.20	0.0	0.12	0.31	0.0	0.0	0.0 T	1.02	0.23	0.0	
29	0.0 T	0.39E	0.0	0.0 T	0.05E	0.0	0.0	0.0	0.64	0.43	0.0 T	0.24E		29	0.0 T	0.39E	0.0	0.0 T	0.05E	0.0	0.0	0.0	0.64	0.43	0.0 T	0.24E	
30	0.0	0.08	0.0 T	0.0	0.25	0.0	0.0	0.0 T	0.43	0.0	0.0	0.04E		30	0.0	0.08	0.0 T	0.0	0.25	0.0	0.0	0.0 T	0.43	0.0	0.04E		
31	0.0	0.0 T	0.0	0.0	0.0	0.0	0.27	0.0	0.44			0.05E		31	0.0	0.0 T	0.0	0.0	0.0	0.27	0.0	0.0	0.44		0.05E		
TOTAL	2.18	1.96	4.33	3.95	3.38	4.13	3.60	3.37	2.10	5.03	4.16	2.06		TOTAL	2.18	1.96	4.33	3.95	3.38	4.13	3.60	3.37	2.10	5.03	4.16	2.06	
STA AV	2.57	2.26	3.38	3.46	3.82	4.11	4.40	2.75	2.63	2.23	2.59	2.33		STA AV	2.57	2.26	3.38	3.46	3.82	4.11	4.40	2.75	2.63	2.23	2.59	2.33	

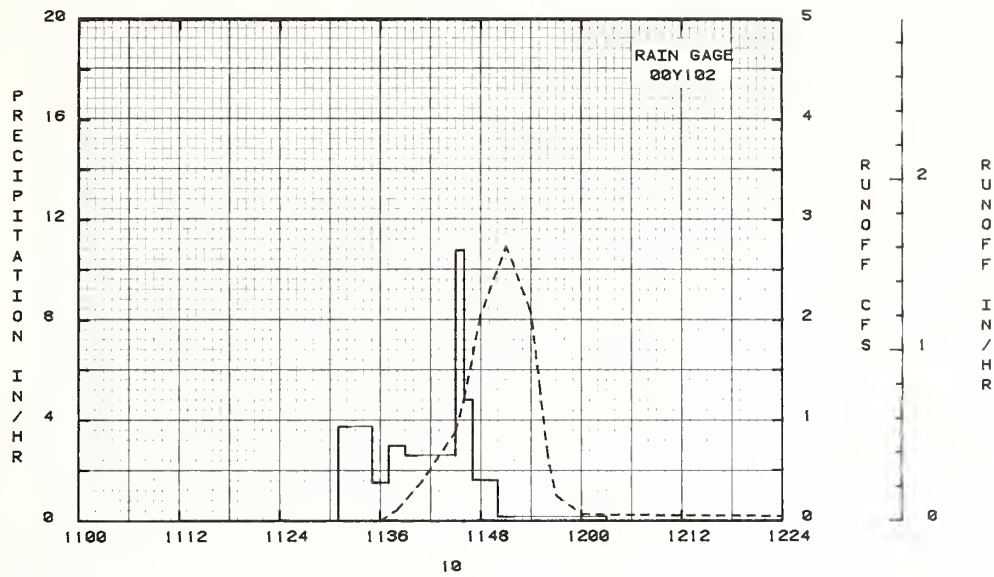
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage Y102. STA AV based on 36 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates that an accurately measured total for a series of days has been divided equally among coded days.

1973 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 109												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.001	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	T	0.0	0.0	0.0	0.023	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	T	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	E	0.0	0.0	0.0	0.0
27	0.0	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	T	0.0
28	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0009	0.0010	0.0010	0.0	0.0	0.0	0.0
INCHES	0.001	0.0	0.007	0.0	0.0	0.389	0.439	0.425	0.0	0.000	0.008	0.0
STA AV	0.064	0.179	0.116	0.045	0.091	0.253	0.283	0.146	0.043	0.010	0.001	0.016

NOTES: To convert CFS to IN/DAY, multiply by 14.0838. STA AV based on 36 yr period, part-year records included.

1973 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 109										
ANTECEDENT CONDITIONS			RAINFALL				HUNTOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 10, 1973										
RG 00Y102			RG 00Y102							
7-10	0.0	0.0	7-10	1131	0.0	0.0	7-10	1136	0.0	0.0
				1135	3.7500	0.25		1138	0.113	0.0012
				1137	1.4997	0.30		1141	0.403	0.0083
				1139	3.0001	0.40		1145	0.892	0.0350
				1145	2.5999	0.66		1146	1.220	0.0447
WATERSHED CONDITIONS: Conventional corn.				1146	10.8006	0.84		1148	2.060	0.0747
				1147	4.8002	0.92		1151	2.740	0.1463
				1150	1.6000	1.00		1154	2.060	0.2178
				1203	0.1385	1.03		1155	1.330	0.2333
								1156	0.621	0.2423
								1157	0.235	0.2472
								1200	0.061	0.2516
								1224	0.035	0.2628
								1254	0.014	0.2700
								1344	0.002	0.2739
								1500	0.0	0.2746

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.58682576.



EVENT OF JULY 10, 1973
COSHOCTON, OHIO WATERSHED 109

COSHOCTON, OHIO WATERSHED 196

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tnscharawas River, Muskingum River Basin. Lat. 40 deg. 21 min. 38 sec. N.; Long. 81 deg. 47 min. 07 sec. W.

AREA: 303.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO WATERSHED 196									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	2.24	2.00	4.33	3.96	3.27	3.42	3.58	2.74	2.03	5.08	4.11	2.11	38.87					
	Q	1.559	2.027	3.254	2.934	1.723	0.555	0.187	0.173	0.056	0.237	1.633	1.229	15.568					
STA AV	P	2.62	2.37	3.50	3.43	3.77	4.17	4.32	2.69	2.65	2.25	2.59	2.38	36.74					
	Q	1.687	1.901	2.832	2.361	1.485	0.981	0.682	0.268	0.216	0.198	0.463	0.995	14.068					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		11-25	0.246	11-25	0.205	11-25	0.309	11-25	0.424	11-25	0.497	3-14	0.621	3-14	0.773	3-14	1.479		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-12	3.720	6-12	1.310	6-12	1.440	7- 5	2.106	7- 5	2.453	1-21	2.920	1-20	3.210	3- 4	4.630		
		1957		1957		1957		1969		1969		1959		1959		1964			

NOTES: Watershed conditions: Woods, 27%; grassland, 50%; miscellaneous, 23%; watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 26.30-5. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watershed in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.30-1 and 26.30-3. Precipitation data from rain gage 108. Precipitation and runoff records began May 1937. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1973 DAILY PRECIPITATION (inches)														COSHOCTON, OHIO WATERSHED 196	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.39	0.0	0.10E	0.0	0.0	0.0	0.01E	0.0	0.62	0.04	0.0			
2	0.0	0.29	0.0	0.02	0.12	0.0	0.02E	0.0	0.0	0.50	0.06E	0.0			
3	0.84	0.03E	0.0	0.03E	0.07	0.11	0.02E	0.0	0.0	0.0	0.0	0.0			
4	0.0	0.0	0.0	0.72	0.0 T	0.71	0.0 T	0.0	0.0	0.32	0.0	0.13			
5	0.0	0.0	0.51	0.02E	0.0	0.17	0.0	0.0	0.13	0.10	0.05E	0.0 T			
6	0.0 T	0.34	0.0	0.0	0.0	0.49	0.0	0.0	0.41	0.0	0.0	0.0 T			
7	0.0 I	0.0	0.18	0.02E	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
8	0.0	0.23S	0.0	0.27	0.26	0.0	0.0	0.0	0.0	0.79	0.0	0.0			
9	0.0	0.0	0.0	0.35	0.03	0.0	0.0	0.16	0.05E	0.0	0.0	0.0			
10	0.0	0.0	0.09	0.07S	1.36	0.0	1.34	0.26	0.0	0.0	0.0	0.0 T			
11	0.01S	0.0	0.22	0.0	0.01E	0.0	0.0	0.51	0.0	0.0	0.0	0.03S			
12	0.0	0.0	0.0 T	0.15S	0.02E	0.29E	0.0	0.10	0.0	0.0	0.0	0.0			
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.44	0.0	0.34			
14	0.0	0.39	1.27	0.0	0.0 T	0.0	0.0 T	1.38	0.05	0.0	0.0	0.0 T			
15	0.09S	0.23E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0 T			
16	0.0	0.0	0.34	0.04E	0.10	0.37	0.0	0.0	0.0	0.0	0.02	0.0			
17	0.0	0.0	0.11S	0.47E	0.0	0.59	0.0	0.27	0.24E	0.0	0.0	0.0			
18	0.0	0.0	0.02S	0.23	0.01E	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0 T			
19	0.13	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0 T	0.01S			
20	0.0	0.0 T	0.0	0.0	0.01	0.0	0.37	0.05E	0.0 T	0.0	0.0	0.90E			
21	0.0	0.03Z	0.0	0.0	0.0	0.05	0.42	0.0	0.0	0.0	0.31	0.0			
22	0.58	0.03Z	0.0 T	0.04	0.0	0.0	0.0	0.0	0.50E	0.0	0.0	0.0			
23	0.03S	0.0 T	0.0	0.33	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.0	0.0	0.13	0.24	0.0	0.0	0.0	0.0	0.75	0.0			
25	0.0	0.0 T	0.17	0.05	0.17	0.0 T	0.48E	0.0	0.0	0.0	1.20	0.05			
26	0.0	0.04S	0.78	0.0	0.0	0.0 T	0.58	0.0	0.0	0.0	0.03E	0.19			
27	0.33	0.0	0.0	1.05E	0.27	0.0	0.0	0.0	0.0	0.02E	0.85	0.02E			
28	0.22S	0.0	0.20	0.0	0.16	0.32	0.0	0.0	0.0 T	1.04	0.16	0.0			
29	0.01S		0.38	0.0	0.0 T	0.08E	0.0	0.0	0.65	0.40	0.0 T	0.22E			
30	0.0		0.06	0.0 T	0.19	0.0	0.0	0.0 T	0.0	0.39	0.0	0.11Z			
31	0.0		0.0 T		0.0		0.35	0.0	0.46			0.11Z			
TOTAL	2.24	2.00	4.33	3.96	3.27	3.42	3.58	2.74	2.03	5.08	4.11	2.11			
STA AV	2.62	2.37	3.50	3.43	3.77	4.17	4.32	2.69	2.65	2.25	2.59	2.38			

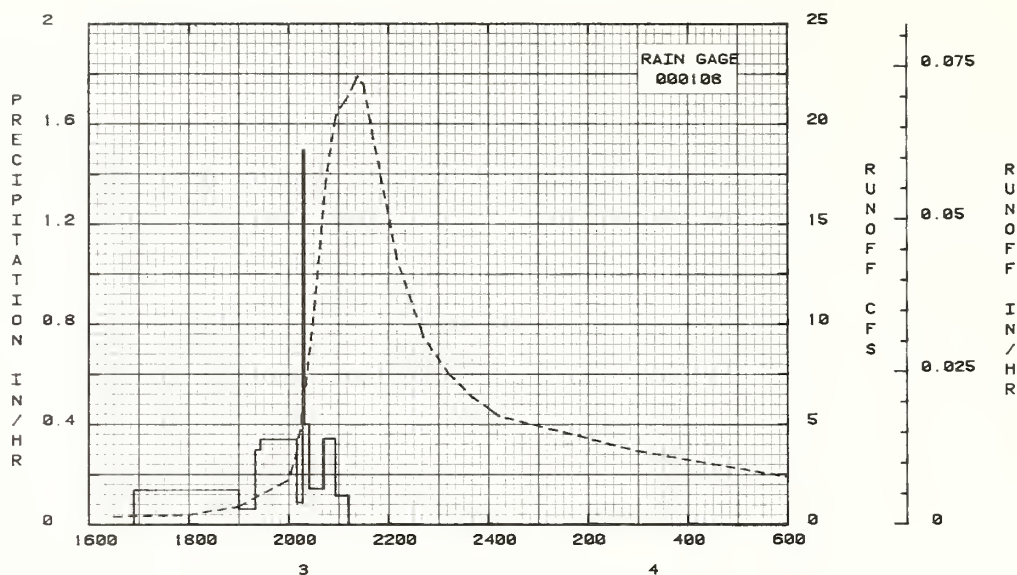
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 108. STA AV based on 37 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1973 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 196												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.437	1.253	0.348	1.211	0.946	0.183	0.062	0.055	0.019	0.127	0.490	0.780
2	0.401	3.743	0.371	1.091	0.911	0.159	0.058	0.036	0.017	0.208	0.173	0.671
3	2.417	1.655	0.394	0.926	0.804	0.179	0.089	0.030	0.016	0.061	0.143	0.579
4	2.207	1.140	0.406	2.851	0.707	0.754	0.071	0.030	0.016	0.062	0.119	0.561
5	1.090	0.946	1.342	1.793	0.576	0.338	0.060	0.030	0.018	0.086	0.125	0.488
6	0.791	1.449	0.857	1.295	0.501	0.937	0.050	0.030	0.057	0.034	0.128	0.371
7	0.582	1.227	0.971	1.134	0.456	0.669	0.044	0.027	0.022	0.029	0.073	0.318
8	0.466	1.344	0.800	1.314	0.549	0.362	0.042	0.024	0.018	0.260	0.068	0.276
9	0.413	0.904	0.695	1.411	0.476	0.289	0.040	0.027	0.020	0.060	0.066	0.270
10	0.341	0.729	0.683	1.516	3.933	0.235	0.465	0.032	0.020	0.039	0.064	0.243
11	0.289	0.630	0.721	1.172	2.746	0.196	0.101	0.048	0.018	0.033	0.061	0.198
12	0.261	0.545	0.681	1.305	1.210	0.277	0.048	0.153	0.017	0.031	0.066	0.197
13	0.242	0.559	0.576	1.080	0.938	0.200	0.040	0.036	0.015	0.116	0.065	0.370
14	0.242	0.990	5.710	0.921	0.746	0.143	0.039	0.901	0.021	0.070	0.062	0.297
15	0.242	1.807	3.327	0.817	0.640	0.115	0.037	0.157	0.018	0.039	0.207	0.226
16	0.242	0.994	2.119	0.734	0.548	0.210	0.033	0.056	0.015	0.034	0.146	0.190
17	0.242	0.695	2.385	1.066	0.517	0.459	0.033	0.094	0.015	0.031	0.088	0.164
18	0.261	0.661	1.545	1.165	0.435	0.224	0.036	0.061	0.033	0.030	0.082	0.151
19	0.418	0.644	1.440	1.096	0.448	0.136	0.036	0.044	0.020	0.030	0.079	0.158
20	0.258	0.593	1.235	0.876	0.503	0.106	0.036	0.044	0.019	0.030	0.073	1.868
21	0.201	0.531	1.030	0.797	0.351	0.110	0.137	0.039	0.018	0.030	0.172	0.944
22	1.138	0.477	0.859	0.733	0.318	0.082	0.058	0.029	0.023	0.030	0.107	0.610
23	0.831	0.440	0.763	0.979	0.308	0.073	0.039	0.026	0.047	0.030	0.091	0.517
24	0.499	0.406	0.695	0.804	0.334	0.088	0.036	0.026	0.022	0.029	1.029	0.463
25	0.406	0.394	0.710	0.714	0.316	0.085	0.159	0.026	0.020	0.028	7.002	0.571
26	0.383	0.383	3.146	0.661	0.288	0.071	0.298	0.026	0.019	0.028	1.176	0.824
27	0.989	0.360	1.532	2.952	0.267	0.068	0.071	0.026	0.017	0.028	3.340	0.722
28	1.213	0.308	1.159	2.353	0.401	0.138	0.041	0.025	0.018	0.318	3.186	0.575
29	0.950		1.333	1.440	0.285	0.091	0.034	0.023	0.083	0.374	1.345	0.797
30	0.695		2.224	1.140	0.261	0.084	0.031	0.021	0.037	0.429	0.963	0.651
31	0.695		1.365		0.220		0.055	0.020		0.288		0.588
MEAN	0.6401	0.9218	1.3363	1.2449	0.7077	0.2355	0.0768	0.0711	0.0239	0.0975	0.6931	0.5045
INCHES	1.559	2.027	3.254	2.934	1.723	0.555	0.187	0.173	0.056	0.237	1.633	1.229
STA AV	1.687	1.901	2.832	2.361	1.485	0.981	0.682	0.268	0.216	0.198	0.463	0.995

NOTES: To convert CFS to IN/DAY, multiply by 0.0786. STA AV based on 37 yr period, part-year records included.

1973 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 196												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JANUARY 3 - 4, 1973												
RG 000108												
1- 3	0.0	0.020	1- 3	1654	0.0	0.0	1- 3	1630	0.406	0.0		
				1900	0.1381	0.29		1800	0.503	0.0022		
				1920	0.0600	0.31		1900	0.921	0.0046		
				1926	0.3000	0.34		2000	2.230	0.0097		
				2010	0.3409	0.59		2010	3.620	0.0113		
WATERSHED CONDITIONS:												
Woods, 27%; grassland, 50%;												
miscellaneous, 23%; watershed												
in improved practice.												
				2017	0.0857	0.60		2016	5.400	0.0128		
				2019	1.4997	0.65		2021	7.000	0.0145		
				2025	0.4000	0.69		2031	10.800	0.0193		
				2042	0.1412	0.73		2045	17.300	0.0301		
				2056	0.3429	0.81		2057	20.500	0.0424		
				2112	0.1125	0.84		2111	21.400	0.0584		
								2123	22.400	0.0728		
								2130	21.900	0.0812		
								2140	19.600	0.0926		
								2210	13.200	0.1194		
								2242	9.330	0.1391		
								2312	7.500	0.1528		
								2340	6.360	0.1634		
								2400	5.780	0.1700		
							1- 4	12	5.400	0.1737		
								300	3.620	0.2150		

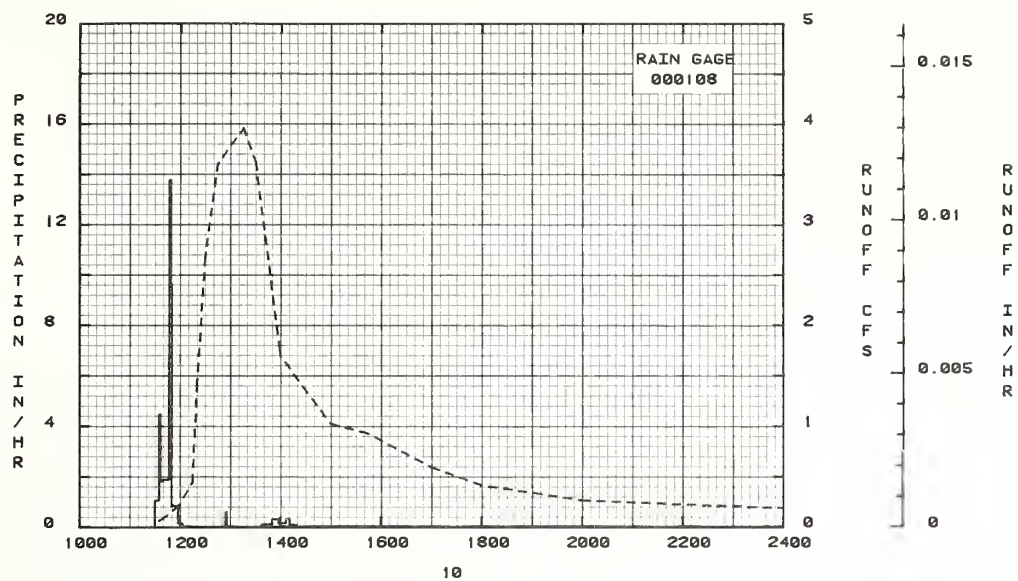
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00327305.



EVENT OF JANUARY 3 - 4, 1973
COSHOCTON, OHIO WATERSHED 196

1973 SELECTED RUNOFF EVENT			COSROCTON, ORIO WATERSHED 196							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 10, 1973										
RG 000108			RG 000108							
7-10	0.0	0.002	7-10	1130	0.0	0.0	7-10	1135	0.058	0.0
				1135	1.0801	0.09		1145	0.118	0.0001
				1137	4.4999	0.24		1200	0.226	0.0002
				1140	1.7999	0.33		1215	0.452	0.0005
				1147	1.8857	0.55		1220	1.400	0.0007
WATERSHED CONDITIONS: Woods, 27%; Grassland, 50%; Miscellaneous, 23%; Watershed in improved practice.				1148	13.8000	0.78		1230	2.720	0.0018
				1150	9.6001	1.10		1245	3.620	0.0044
				1158	0.8250	1.21		1315	3.960	0.0106
				1203	0.1199	1.22		1330	3.620	0.0137
				1255	0.0	1.22		1400	1.690	0.0181
				1256	0.6006	1.23		1500	1.020	0.0225
				1338	0.0	1.23		1545	0.921	0.0249
				1350	0.0999	1.25		1700	0.593	0.0280
				1358	0.3001	1.29		1800	0.406	0.0296
				1407	0.1334	1.31		2000	0.261	0.0318
				1411	0.2998	1.33		2400	0.182	0.0347
				1420	0.0667	1.34				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00327305.



EVENT OF JULY 10, 1973
COSHOCTON, OHIO WATERSHED 196

COSHOCTON, OHIO WATERSHED 174

LOCATION: Coshocton Co., Ohio; 10 mi. NE of Coshocton; Tnsicarawas River, Muskingum River Basin. Lat. 40 deg. 21 min. 50 sec. N.; Long. 81 deg. 47 min. 32 sec. W.

AREA: 52.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										COSHOCTON, OHIO WATERSHED 174									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	2.27	1.92	4.12	3.65	3.13	3.32	3.59	2.97	1.99	4.63	4.09	2.08	37.76					
	Q	1.087	1.356	2.220	1.752	0.849	0.313	0.113	0.137	0.003	0.157	1.348	0.704	10.040					
STA AV	P	2.19	2.15	3.47	3.35	3.26	2.94	3.90	2.40	2.50	2.00	2.79	2.49	33.45					
	Q	0.796	1.212	2.159	1.524	0.687	0.258	0.436	0.079	0.044	0.071	0.345	0.545	8.157					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		11-25	0.248	11-25	0.222	11-25	0.339	11-25	0.458	11-25	0.515	11-24	0.580	11-24	0.661	11-24	1.293		
MAXIMUMS FOR PERIOD OF RECORD																			
		7- 5	1.085	4-25	0.820	4-25	1.110	7- 5	1.802	7- 5	2.154	7- 5	2.365	3- 9	2.540	3- 4	3.710		
		1960		1961		1961		1969		1969		1969		1964		1964			

NOTES: Watershed conditions: Cover of 15% hardwoods, 2% reforested, 67% grassland, 16% miscellaneous, watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 26.30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.38-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began June 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1973 DAILY PRECIPITATION (inches)													COSHOCTON, OHIO WATERSHED 174	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.39	0.0	0.16Z	0.0	0.0	0.0	0.01E	0.0	0.50	0.04	0.0		
2	0.0	0.25	0.0	0.16Z	0.14	0.0	0.02E	0.0	0.0	0.51	0.06H	0.0		
3	0.85	0.03E	0.0	0.16Z	0.06	0.06	0.02E	0.0	0.0	0.0 T	0.0	0.0		
4	0.0	0.0	0.0	0.16Z	0.0 T	0.65	0.0 T	0.0	0.0	0.33	0.0	0.14		
5	0.0	0.0	0.51	0.16Z	0.0	0.07	0.0	0.0	0.14	0.11	0.05E	0.0 T		
6	0.0 T	0.31	0.0	0.0	0.0	0.57	0.0	0.0	0.45	0.0	0.0	0.0 T		
7	0.0 T	0.0	0.19H	0.02E	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.29S	0.0	0.22	0.27E	0.0	0.0	0.0	0.0	0.48	0.0	0.0		
9	0.0	0.0	0.0	0.33	0.02	0.0	0.0	0.10	0.04E	0.0	0.0	0.0		
10	0.0	0.0	0.09	0.05S	1.33E	0.0	1.26	0.31	0.0	0.0	0.0	0.0 T		
11	0.01S	0.0	0.09	0.0	0.01E	0.0	0.0	0.60	0.0	0.0	0.0	0.0 T		
12	0.0	0.0	0.0 T	0.12S	0.02E	0.40E	0.0	0.08	0.0	0.0	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.44	0.0	0.34		
14	0.0	0.34E	1.23	0.0	0.0 T	0.0	0.0 T	1.47	0.04	0.0	0.0	0.0 T		
15	0.10S	0.23H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0 T		
16	0.0	0.0	0.33	0.03E	0.09	0.39	0.0	0.0	0.0	0.0	0.02	0.0		
17	0.0	0.0	0.12S	0.53E	0.0	0.68	0.0	0.35	0.20E	0.0	0.0	0.0		
18	0.0	0.0	0.02S	0.10	0.01E	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0 T		
19	0.14	0.0	0.0	0.0	0.30E	0.0	0.0	0.0	0.0	0.0	0.0 T	0.03S		
20	0.0	0.0 T	0.0	0.0	0.01	0.0	0.46	0.05E	0.0 T	0.0	0.0	0.87H		
21	0.0	0.03Z	0.0	0.0	0.0	0.04	0.39	0.0	0.0	0.0	0.33	0.0		
22	0.55E	0.03Z	0.0 T	0.04E	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0		
23	0.03S	0.0 T	0.0	0.31	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.10	0.14	0.0	0.0	0.0	0.0	0.71	0.0		
25	0.0	0.0 T	0.17	0.05	0.14E	0.0 T	0.55	0.0	0.0	0.0	1.20	0.10		
26	0.0	0.02S	0.74	0.0	0.0	0.0 T	0.60	0.0	0.0	0.0	0.03H	0.19		
27	0.33	0.0	0.0	1.05E	0.28E	0.0 T	0.0	0.0	0.0	0.02E	0.89	0.01E		
28	0.23S	0.0	0.20	0.0	0.13	0.29	0.0	0.0	0.0 T	0.99	0.16	0.0		
29	0.03S	0.0	0.36	0.0	0.0 T	0.03E	0.0	0.0	0.62	0.42	0.0 T	0.22		
30	0.0	0.07	0.0 T	0.0 T	0.17	0.0	0.0	0.0 T	0.0	0.41	0.0	0.09Z		
31	0.0	0.0	0.0 T	0.0	0.0	0.29	0.0	0.0	0.42	0.0	0.09Z	0.09Z		
TOTAL	2.27	1.92	4.12	3.65	3.13	3.32	3.59	2.97	1.99	4.63	4.09	2.08		
STA AV	2.19	2.15	3.47	3.35	3.26	2.94	3.90	2.40	2.50	2.00	2.79	2.49		

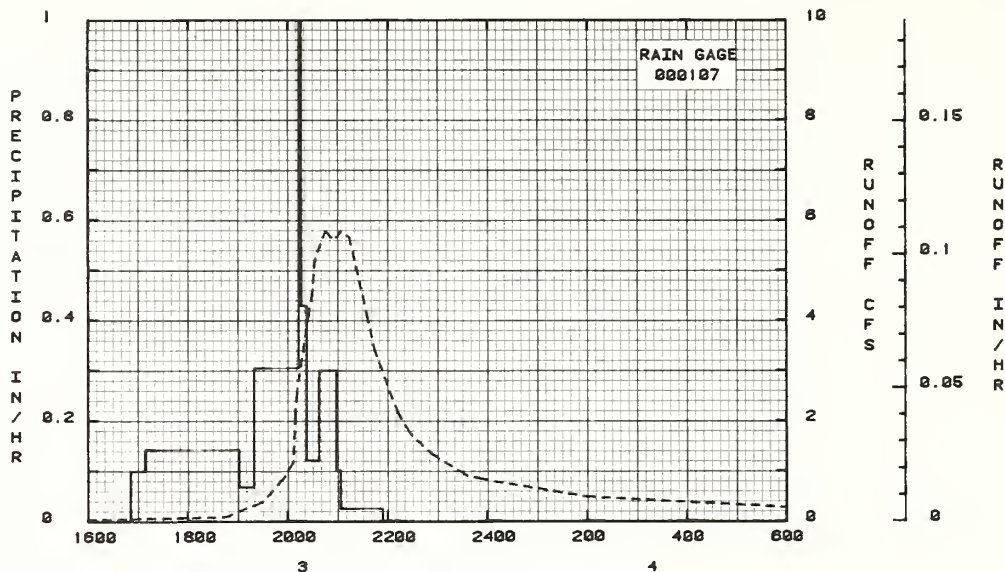
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV based on 14 yr period, part-year records included. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1973 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 174												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.033	0.222	0.010	0.123	0.073	0.006	0.002	0.001	0.0	0.015	0.050	0.064
2	0.030	0.482	0.013	0.105	0.069	0.005	0.002	0.0	0.0	0.035	0.008	0.047
3	0.521	0.199	0.027	0.084	0.054	0.006	0.002	0.0	0.0	0.002	0.006	0.033
4	0.274	0.126	0.027	0.396	0.042	0.079	0.002	0.0	0.0	0.007	0.005	0.038
5	0.126	0.089	0.225	0.201	0.036	0.014	0.001	0.0	0.0	0.008	0.004	0.031
6	0.084	0.179	0.083	0.131	0.030	0.150	0.001	0.0	0.001	0.0 T	0.002	0.019
7	0.055	0.116	0.106	0.105	0.024	0.048	0.0 T	0.0	0.0	0.0	0.002	0.015
8	0.042	0.146	0.069	0.139	0.038	0.017	0.0	0.0	0.0	0.077	0.002	0.013
9	0.033	0.089	0.050	0.160	0.024	0.011	0.0	0.0	0.0	0.002	0.001	0.013
10	0.024	0.068	0.054	0.174	0.707	0.008	0.127	0.001	0.0	0.0 T	0.001	0.011
11	0.019	0.058	0.060	0.109	0.249	0.006	0.003	0.014	0.0	0.0	0.001	0.010
12	0.015	0.046	0.052	0.142	0.090	0.044	0.001	0.020	0.0	0.0	0.001	0.010
13	0.013	0.045	0.039	0.094	0.055	0.012	0.0 T	0.0	0.0	0.010	0.001	0.033
14	0.013	0.145	0.978	0.073	0.039	0.006	0.0	0.228	0.0	0.003	0.002	0.024
15	0.013	0.278	0.379	0.059	0.033	0.005	0.0	0.014	0.0	0.0 T	0.024	0.015
16	0.013	0.107	0.261	0.050	0.030	0.025	0.0	0.001	0.0	0.0	0.009	0.011
17	0.015	0.078	0.272	0.149	0.031	0.135	0.0	0.017	0.0 T	0.0	0.004	0.010
18	0.019	0.126	0.161	0.121	0.022	0.024	0.0	0.003	0.0 T	0.0	0.003	0.007
19	0.041	0.153	0.150	0.099	0.023	0.011	0.0	0.001	0.0	0.0	0.002	0.007
20	0.020	0.042	0.115	0.073	0.036	0.007	0.0 T	0.001	0.0	0.0	0.002	0.372
21	0.011	0.036	0.094	0.059	0.017	0.007	0.017	0.0 T	0.0	0.0	0.018	0.096
22	0.176	0.030	0.073	0.053	0.013	0.005	0.001	0.0	0.002	0.0	0.006	0.055
23	0.098	0.027	0.059	0.086	0.013	0.004	0.0	0.0	0.0 T	0.0	0.005	0.039
24	0.044	0.027	0.050	0.055	0.018	0.009	0.031	0.0	0.0	0.0	0.199	0.033
25	0.033	0.027	0.057	0.048	0.018	0.005	0.055	0.0	0.0	0.0	1.224	0.064
26	0.036	0.024	0.523	0.042	0.015	0.002	0.003	0.0	0.0	0.0	0.107	0.127
27	0.172	0.021	0.202	0.437	0.014	0.002	0.0 T	0.0	0.0	0.0	0.667	0.079
28	0.187	0.021	0.126	0.278	0.029	0.031	0.0	0.0	0.0	0.039	0.402	0.059
29	0.108		0.171	0.139	0.014	0.005	0.0	0.0	0.004	0.045	0.140	0.106
30	0.073		0.296	0.099	0.015	0.002	0.001	0.0	0.0 T	0.049	0.089	0.063
31	0.068		0.139		0.011		0.0	0.0		0.053		0.053
MEAN	0.0778	0.1074	0.1589	0.1295	0.0608	0.0231	0.0081	0.0098	0.0002	0.0112	0.0997	0.0504
INCHES	1.087	1.356	2.220	1.752	0.849	0.313	0.113	0.137	0.003	0.157	1.348	0.704
STA AV	0.796	1.212	2.159	1.524	0.687	0.258	0.436	0.079	0.044	0.071	0.345	0.545

NOTES: To convert CFS to IN/DAY, multiply by 0.45079. STA AV based on 14 yr period, part-year records included.

1973 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 174										
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JANUARY 3 - 4, 1973										
RG 000107										
1- 3	0.0	0.008	1- 3	1651	0.0	0.0	1- 3	1600	0.027	0.0
				1709	0.1000	0.03		1845	0.094	0.0031
				1902	0.1434	0.30		1930	0.395	0.0066
				1920	0.0667	0.32		1957	0.903	0.0120
				2013	0.3057	0.59		2007	1.200	0.0153
WATERSHED CONDITIONS:										
Cover of 15%, hardwoods; 2%, reforested; 67%, grassland; 16%, miscellaneous; watershed in improved practice.										
				2016	0.9999	0.64		2009	2.240	0.0164
				2023	0.4286	0.69		2012	2.650	0.0187
				2038	0.1200	0.72		2025	4.100	0.0324
				2058	0.3000	0.82		2029	4.470	0.0378
				2104	0.1000	0.83		2033	5.240	0.0439
				2154	0.0240	0.85		2045	5.780	0.0646
								2052	5.650	0.0771
								2058	5.650	0.0877
								2104	5.780	0.0985
								2114	5.650	0.1164
								2135	4.100	0.1484
								2144	3.420	0.1590
								2212	2.160	0.1835
								2229	1.700	0.1937
								2254	1.320	0.2055
								2336	0.903	0.2202
								2400	0.814	0.2266
							1- 4	200	0.482	0.2509
								600	0.273	0.2793

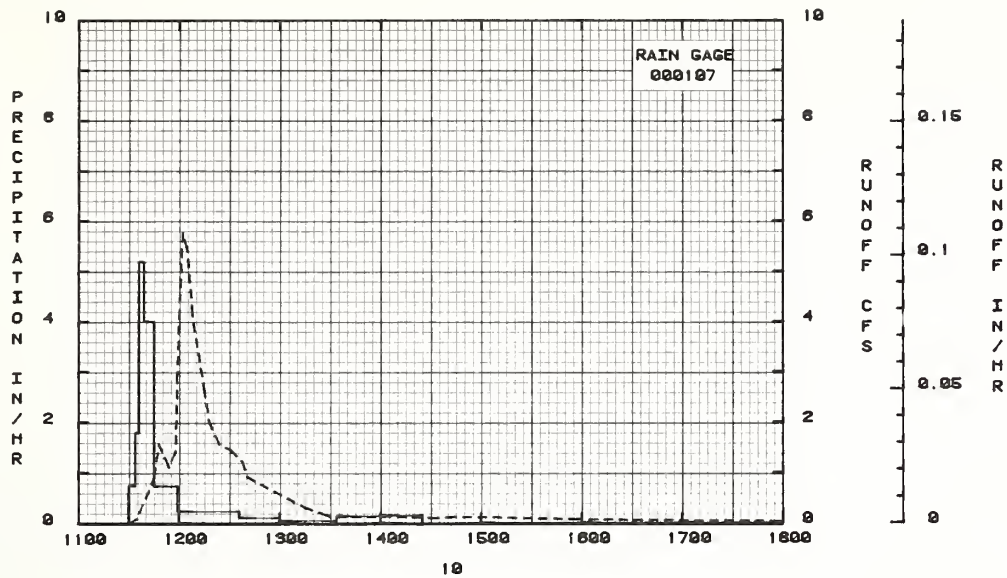
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01878287.



EVENT OF JANUARY 3 - 4, 1973
COSHOCOTON, OHIO WATERSHED 174

1973 SELECTED RUNOFF EVENT			COSHOCOTON, OHIO WATERSHED 174						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF JULY 10, 1973									
RG 000107			BG 000107						
7-10	0.0	0.0	7-10	1130	0.0	0.0	7-10	1130	0.0
				1134	0.7500	0.05		1135	0.094
				1136	1.8000	0.11		1145	0.903
				1139	5.2002	0.37		1146	1.100
				1145	3.9999	0.77		1148	1.560
WATERSHED CONDITIONS: Cover of hardwoods, 15%; re-forested, 2%; grassland, 67%; miscellaneous, 16%; watershed in improved practice.				1159	0.7286	0.94		1154	1.100
				1236	0.2270	1.08		1158	1.440
				1300	0.1000	1.12		1159	3.020
				1334	0.0353	1.14		1200	4.100
				1400	0.1385	1.20		1202	5.780
				1425	0.1440	1.26		1205	5.380
								1208	4.100
								1215	2.650
								1218	2.000
								1224	1.560
								1231	1.440
								1238	1.200
								1241	0.903
								1315	0.295
								1330	0.116
								1415	0.116
								1430	0.094
								1445	0.116
								1600	0.064
									0.0536

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.01878287.



EVENT OF JULY 10, 1973
COSHOCKTON, OHIO WATERSHED 174

COSHOCTON, OHIO WATERSHED 194

LOCATION: Coshocton Co., Ohio 10 mi. NE of Coshocton; Tuscarawas River, Muskingum River Basin. Lat. 40 deg. 21 min. 47 sec. N.; Long. 81 deg. 47 min. 23 sec. W.

AREA: 187.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								COSHOCTON, OHIO WATERSHED 194											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	2.27	1.92	4.12	3.65	3.13	3.32	3.59	2.97	1.99	4.63	4.09	2.08	37.76					
	Q	1.547	1.787	2.909	2.427	1.486	0.553	0.180	0.157	0.058	0.249	1.388	1.101	13.843					
STA AV	P	2.23	2.22	3.30	3.23	3.23	2.94	3.90	2.40	2.50	2.00	2.79	2.49	33.24					
	Q	1.244	1.698	2.968	2.227	1.336	0.529	0.600	0.143	0.100	0.160	0.497	0.861	12.363					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		11-25	0.199	11-25	0.177	11-25	0.261	3-14	0.360	3-14	0.460	3-14	0.556	3-14	0.688	3-14	1.324		
MAXIMUMS FOR PERIOD OF RECORD																			
		7- 5	0.959	4-25	0.680	4-25	0.930	7- 5	1.620	7- 5	1.979	7- 5	2.269	3- 9	2.600	3- 4	3.890		
		1969		1961		1961		1969		1969		1969		1964		1964			

NOTES: Watershed conditions: Cover of 21% hardwoods, 2% reforested, 58% grassland, 11% cultivated, 8% miscellaneous, watershed in improved practice. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 26.30-4. For Geology description and map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, pp. 26.39-1 and 26.30-3. Precipitation data from rain gage 107. Precipitation and runoff records began Jan. 1960. For long-time precipitation records, see National Weather Service records at Coshocton, Ohio.

1973 DAILY PRECIPITATION (inches)													
COSHOCTON, OHIO WATERSHED 194													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.39	0.0	0.16Z	0.0	0.0	0.0	0.01E	0.0	0.50	0.04	0.0	
2	0.0	0.25	0.0	0.16Z	0.14	0.0	0.02E	0.0	0.0	0.51	0.06E	0.0	
3	0.85	0.03E	0.0	0.16Z	0.06	0.06	0.02E	0.0	0.0	0.0 T	0.0	0.0	
4	0.0	0.0	0.0	0.16Z	0.0 T	0.65	0.0 T	0.0	0.0	0.33	0.0	0.14	
5	0.0	0.0	0.51	0.16Z	0.0	0.07	0.0	0.0	0.14	0.11	0.05E	0.0 T	
6	0.0 T	0.31	0.0	0.0	0.0	0.57	0.0	0.0	0.45	0.0	0.0	0.0 T	
7	0.0 T	0.0	0.19E	0.02E	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.29S	0.0	0.22	0.27E	0.0	0.0	0.0	0.0	0.48	0.0	0.0	
9	0.0	0.0	0.0	0.33	0.02	0.0	0.0	0.10	0.04E	0.0	0.0	0.0	
10	0.0	0.0	0.09	0.05S	1.33E	0.0	1.26	0.31	0.0	0.0	0.0	0.0 T	
11	0.01S	0.0	0.09	0.0	0.01E	0.0	0.0	0.60	0.0	0.0	0.0	0.0 T	
12	0.0	0.0	0.0 T	0.12S	0.02E	0.40E	0.0	0.08	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.44	0.0	0.34	
14	0.0	0.34E	1.23	0.0	0.0 T	0.0	0.0 T	1.47	0.04	0.0	0.0	0.0 T	
15	0.10	0.23E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0 T	
16	0.0	0.0	0.33	0.03E	0.09	0.39	0.0	0.0	0.0	0.0	0.02	0.0	
17	0.0	0.0	0.12S	0.53E	0.0	0.68	0.0	0.35	0.20E	0.0	0.0	0.0	
18	0.0	0.0	0.02S	0.10	0.01E	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0 T	
19	0.14	0.0	0.0	0.0	0.30E	0.0	0.0	0.0	0.0	0.0	0.0 T	0.03S	
20	0.0	0.0 T	0.0	0.0	0.01	0.0	0.46	0.05E	0.0 T	0.0	0.0	0.87E	
21	0.0	0.03Z	0.0	0.0	0.0	0.04	0.39	0.0	0.0	0.0	0.33	0.0	
22	0.55E	0.03Z	0.0 T	0.04E	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0	
23	0.03S	0.0 T	0.0	0.31	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.10	0.14	0.0	0.0	0.0	0.0	0.71	0.0	
25	0.0	0.0 T	0.17	0.05	0.14E	0.0 T	0.55	0.0	0.0	0.0	1.20	0.10	
26	0.0	0.02S	0.74	0.0	0.0	0.0 T	0.60	0.0	0.0	0.0	0.03E	0.19	
27	0.33	0.0	0.0	1.05E	0.28E	0.0 T	0.0	0.0	0.0	0.02E	0.89	0.01E	
28	0.23S	0.0	0.20	0.0	0.13	0.29	0.0	0.0	0.0 T	0.99	0.16	0.0	
29	0.03S	0.0	0.36	0.0	0.0 T	0.03E	0.0	0.0	0.62	0.42	0.0 T	0.22	
30	0.0	0.07	0.0 T	0.0 T	0.17	0.0	0.0	0.0 T	0.0	0.41	0.0	0.09Z	
31	0.0	0.0	0.0 T	0.0	0.0	0.0	0.29	0.0	0.0	0.42	0.0	0.09Z	
TOTAL	2.27	1.92	4.12	3.65	3.13	3.32	3.59	2.97	1.99	4.63	4.09	2.08	
STA AV	2.23	2.22	3.30	3.23	3.23	2.94	3.90	2.40	2.50	2.00	2.79	2.49	

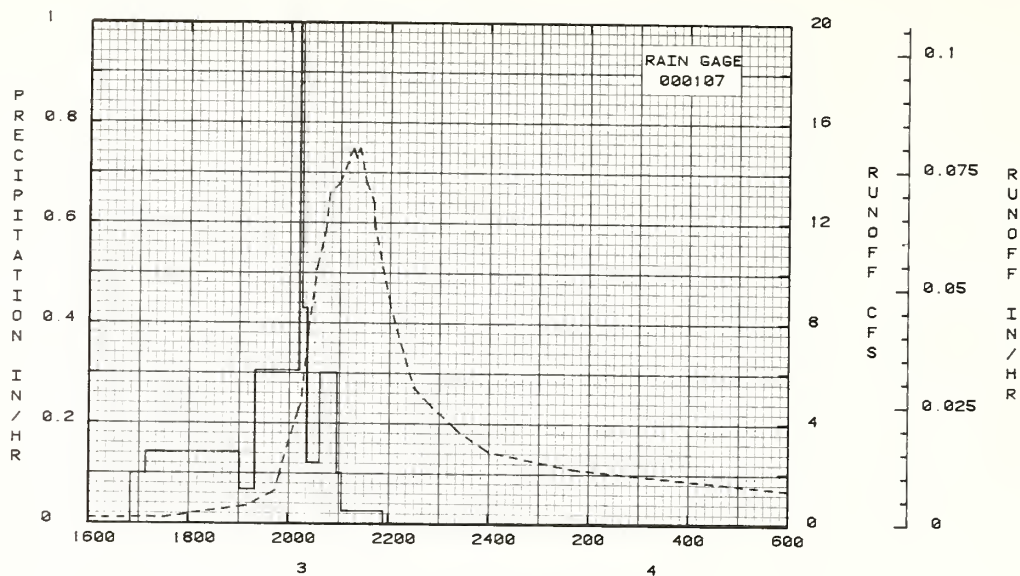
NOTES: For daily air temperatures in the vicinity, see table for Watershed 123, p. 26.010-1. Precipitation amounts are for rain gage 107. STA AV based on 14 yr period. Codes 'E' may reflect estimated storm duration rather than estimated rainfall amounts. Code 'Z' indicates accurately measured total for a series of days has been equally divided among coded days.

1973 MEAN DAILY DISCHARGE (cfs) COSHOCTON, OHIO WATERSHED 194												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.243	0.798	0.188	0.665	0.479	0.112	0.037	0.029	0.012	0.086	0.207	0.378
2	0.215	1.794	0.201	0.567	0.475	0.094	0.037	0.021	0.010	0.144	0.094	0.322
3	1.533	1.065	0.215	0.458	0.414	0.104	0.038	0.021	0.012	0.023	0.072	0.274
4	1.240	0.730	0.215	1.408	0.359	0.444	0.032	0.021	0.012	0.039	0.052	0.290
5	0.622	0.570	0.790	0.912	0.322	0.172	0.024	0.018	0.014	0.047	0.047	0.237
6	0.442	0.831	0.471	0.700	0.289	0.556	0.021	0.015	0.038	0.015	0.042	0.176
7	0.307	0.631	0.569	0.592	0.243	0.348	0.021	0.015	0.012	0.015	0.037	0.164
8	0.258	0.698	0.458	0.704	0.267	0.189	0.021	0.015	0.010	0.226	0.037	0.164
9	0.229	0.461	0.397	0.738	0.257	0.152	0.021	0.019	0.016	0.030	0.037	0.152
10	0.215	0.359	0.380	0.796	2.271	0.131	0.307	0.023	0.015	0.018	0.032	0.131
11	0.229	0.307	0.404	0.619	1.425	0.121	0.048	0.042	0.012	0.024	0.028	0.117
12	0.243	0.274	0.364	0.706	0.665	0.189	0.024	0.092	0.010	0.028	0.028	0.112
13	0.215	0.307	0.314	0.570	0.481	0.122	0.021	0.021	0.010	0.091	0.028	0.221
14	0.176	0.587	3.287	0.479	0.378	0.094	0.021	0.531	0.016	0.033	0.028	0.165
15	0.164	0.978	1.695	0.437	0.307	0.086	0.021	0.078	0.012	0.021	0.129	0.131
16	0.152	0.539	1.160	0.378	0.257	0.150	0.021	0.024	0.010	0.021	0.071	0.112
17	0.141	0.378	1.273	0.565	0.253	0.318	0.021	0.061	0.016	0.021	0.047	0.103
18	0.152	0.359	0.880	0.606	0.229	0.159	0.021	0.030	0.022	0.021	0.047	0.147
19	0.260	0.339	0.817	0.546	0.228	0.090	0.021	0.018	0.010	0.021	0.042	0.103
20	0.164	0.289	0.700	0.437	0.259	0.079	0.030	0.019	0.010	0.021	0.037	1.079
21	0.141	0.274	0.570	0.397	0.189	0.080	0.087	0.015	0.010	0.018	0.098	0.471
22	0.752	0.258	0.479	0.359	0.164	0.065	0.027	0.010	0.029	0.015	0.052	0.322
23	0.512	0.229	0.418	0.487	0.164	0.058	0.021	0.010	0.023	0.012	0.047	0.289
24	0.291	0.215	0.359	0.362	0.177	0.072	0.018	0.010	0.012	0.008	0.771	0.258
25	0.243	0.215	0.392	0.325	0.173	0.065	0.110	0.010	0.007	0.008	3.531	0.338
26	0.243	0.201	1.746	0.289	0.162	0.052	0.198	0.010	0.005	0.010	0.636	0.494
27	0.669	0.188	0.857	1.491	0.166	0.047	0.043	0.010	0.006	0.010	1.915	0.398
28	0.746	0.163	0.613	1.178	0.208	0.089	0.024	0.010	0.009	0.267	1.490	0.340
29	0.557	0.730	0.715	0.144	0.059	0.059	0.021	0.010	0.058	0.173	0.717	0.476
30	0.397	1.181	0.580	0.139	0.047	0.021	0.021	0.010	0.015	0.310	0.503	0.346
31	0.397	0.730	0.131	0.131	0.036	0.015	0.036	0.015	0.184	0.184	0.334	0.334
MEAN	0.3920	0.5014	0.7372	0.6356	0.3767	0.1449	0.0457	0.0398	0.0152	0.0632	0.3635	0.2789
INCRS	1.547	1.787	2.909	2.427	1.486	0.553	0.180	0.157	0.058	0.249	1.388	1.101
STA AV	1.244	1.698	2.968	2.227	1.336	0.529	0.600	0.143	0.100	0.160	0.497	0.861

NOTES: To convert CFS to IN/DAY, multiply by 0.12728. STA AV based on 14 yr period.

1973 SELECTED RUNOFF EVENT COSHOCTON, OHIO WATERSHED 194											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JANUARY 3 - 4, 1973											
RG 000107											
1- 3	0.0	0.017	1- 3	1651	0.0	0.0	1- 3	1600	0.215	0.0	
				1709	0.1000	0.03		1730	0.243	0.0018	
				1902	0.1434	0.30		1910	0.700	0.0060	
				1920	0.0667	0.32		1945	1.310	0.0091	
				2013	0.3057	0.59		1951	2.150	0.0100	
WATERSHED CONDITIONS:											
21%, hardwoods; 2%, re-											
forested; 58%, grassland;											
11%, cultivated practice;											
8%, miscellaneous. Water-											
shed in improved practice.											
				2016	0.9999	0.64		2009	4.250	0.0151	
				2023	0.4286	0.69		2015	4.790	0.0175	
				2038	0.1200	0.72		2024	7.740	0.0225	
				2058	0.3000	0.82		2034	10.300	0.0305	
				2104	0.1000	0.83		2044	11.700	0.0402	
				2154	0.0240	0.85		2048	13.200	0.0446	
								2100	13.600	0.0588	
								2116	15.000	0.0790	
								2120	14.600	0.0842	
								2124	15.000	0.0895	
								2132	13.600	0.0996	
								2141	12.800	0.1101	
								2143	11.700	0.1122	
								2202	8.580	0.1293	
								2230	5.400	0.1466	
								2253	4.600	0.1567	
								2326	3.600	0.1687	
								2400	2.850	0.1784	
								140	2.150	0.2005	
								600	1.310	0.2402	
								1- 4			

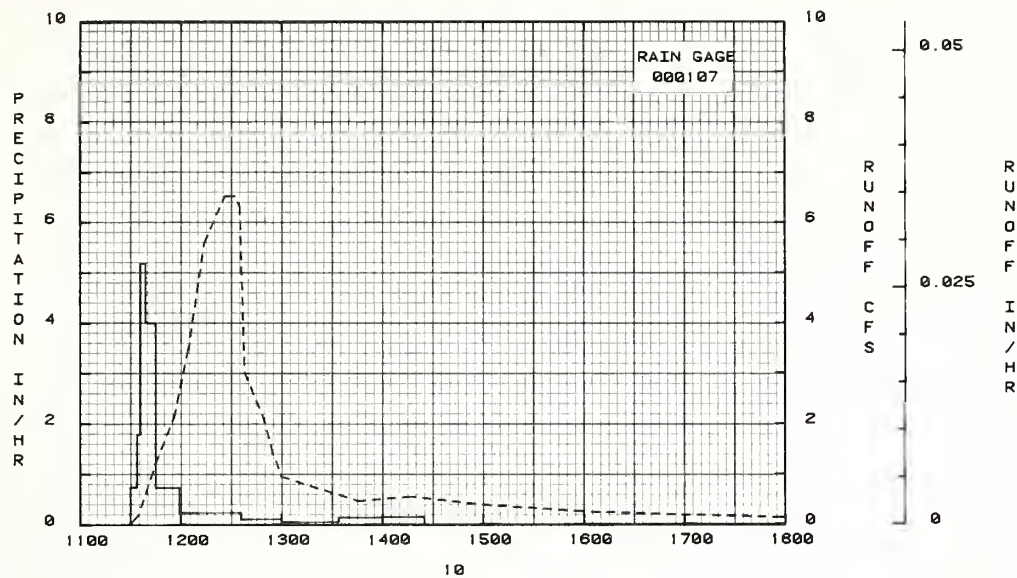
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00530340.



EVENT OF JANUARY 3 - 4, 1973
COSHOCTON, OHIO WATERSHED 194

1973 SELECTED RUNOFF EVENT			COSHOCTON, OHIO WATERSHED 194							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 10, 1973										
7-10	RG 000107 0.0	0.001	7-10	EG 000107 1130	0.0	0.0	7-10	1130	0.021	0.0
				1134	0.7500	0.05		1135	0.215	0.0001
				1136	1.8000	0.11		1145	1.230	0.0007
				1139	5.2002	0.37		1156	2.150	0.0023
				1145	3.9999	0.77		1205	3.600	0.0046
WATERSHED CONDITIONS: 21%, hardwoods; 2%, re-forested; 58%, grassland; 11%, cultivated practice; 8%; miscellaneous. Watershed in improved practice.				1159	0.7286	0.94		1214	5.620	0.0082
				1236	0.2270	1.08		1226	6.540	0.0147
				1300	0.1000	1.12		1232	6.540	0.0182
				1334	0.0353	1.14		1235	6.310	0.0199
				1400	0.1385	1.20		1238	3.000	0.0212
				1425	0.1440	1.26		1249	2.150	0.0237
								1255	1.390	0.0246
								1300	0.940	0.0251
								1345	0.458	0.0279
								1415	0.545	0.0292
							1500	0.378	0.0311	
							1600	0.243	0.0327	
							1800	0.121	0.0347	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00530340.



EVENT OF JULY 10, 1973
COSHOCOTON, OHIO WATERSHED 194

STILLWATER, OKLAHOMA WATERSHED W-1

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River. Lat. 36 deg. 21 min. N.; Long. 97 deg. 04 min. W.

AREA: 16.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													STILLWATER, OKLAHOMA WATERSHED W-1	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P			5.53	2.73	1.92	7.79	5.95	10.52	2.30	3.41	1.37		
	Q			4.102	0.750	0.0	0.687	4.133	4.633	1.118	1.938	1.106		
STA AV	P	0.61	1.01	1.83	2.64	4.56	3.98	4.16	2.81	4.20	2.58	1.59	1.19	31.16
	Q	0.133	0.293	0.752	0.970	1.527	0.879	0.565	0.236	0.608	0.627	0.453	0.328	7.372
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
	Maximum Discharge Date	1 Hour Date	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date						
1973	8- 8 6.705	8- 8 3.516	8- 8 3.812	8- 8 3.958	8- 8 4.028	8- 8 4.133	9-24 4.342	10- 3 4.568						
MAXIMUMS FOR PERIOD OF RECORD														
	4-18 6.990	8- 8 3.516	8- 8 3.812	7-15 3.963	10- 2 4.519	7-14 5.185	10- 1 5.679	9-29 7.627						
	1957	1973	1973	1951	1959	1951	1959	1959						

NOTES: Watershed conditions: All native grass pasture located in region (R-80) of the Central Rolling Red Prairies land resource area. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 37.1-7 (revised). Precipitation data obtained from R-1 recording rain gage. Precipitation and runoff records began July 1951. STA AV precipitation data from R-3 recording rain gage record through 1964 combined with data from R-1 for 1965 through 1973. Runoff records (Jan. 5, 1973 thru March 29, 1973) are missing due to transfer of operation. Station operated by Oklahoma Agricultural Experiment Station as of March 30, 1973. Part year records are included in STA AV. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1973 DAILY PRECIPITATION (inches)													STILLWATER, OKLAHOMA WATERSHED W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0		
2	NR	NR	NR	0.04	0.0	0.42	0.11	0.0	0.0	0.0	0.0	0.0		
3	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0		
4	NR	NR	NR	0.0	0.0	0.80	0.0	0.0	2.66	0.15	0.0	0.0		
5	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
6	NR	NR	NR	0.0	1.00	0.0	0.0	0.0	0.10	0.24	0.0	0.0		
7	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0		
8	NR	NR	NR	1.19	0.0	0.0	0.0	5.32	0.98	0.0	0.0	0.0		
9	NR	NR	NR	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0		
10	NR	NR	NR	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0		
11	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	1.66	0.0	0.0		
12	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0		
13	NR	NR	NR	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0		
14	NR	NR	NR	0.0	0.0	0.35	1.83	0.0	0.0	0.0	0.0	0.0		
15	NR	NR	NR	1.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
16	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	NR	NR	NR	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0		
19	NR	NR	NR	0.24	0.0	0.30	0.0	0.0	0.0	0.0	1.05	0.11		
20	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0		
21	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	NR	NR	NR	0.0	0.0	0.0	0.58	0.0	0.50	0.0	0.0	0.0		
23	NR	NR	NR	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.16	0.0		
24	NR	NR	NR	1.80	0.14	0.0	0.0	0.0	2.10	0.0	1.74	0.0		
25	NR	NR	NR	0.0	0.0	0.0	2.27	0.0	0.0	0.0	0.0	0.0		
26	NR	NR	NR	0.0	0.09	0.0	0.0	0.0	3.46	0.0	0.0	0.0		
27	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.09	0.25	0.30	0.0		
28	NR	NR	NR	0.0	0.0	0.0	0.95	0.0	0.0	0.0	0.0	0.0		
29	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	NR	NR	0.69	0.72	0.28	0.0	2.05	0.0	0.0	0.0	0.0	0.0		
31	NR	NR	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL				5.53	2.73	1.92	7.79	5.95	10.52	2.30	3.41	1.37		
STA AV	0.61	1.01	1.83	2.64	4.56	3.98	4.16	2.81	4.20	2.58	1.59	1.19		

NOTES: Amounts recorded at rain gage R-1 used for current monthly totals and for runoff events. STA AV based on 23 yr (1951-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) STILLWATER, OKLAHOMA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	NR	NR	0.001	0.163	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.001	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.038	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.652
4	0.025	NR	NR	0.0	0.0	0.0	0.0	0.0	0.045	0.0	0.0	0.110
5	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014
6	NR	NR	NR	0.0	0.358	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	NR	NR	NR	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	NR	NR	NR	0.597	0.0	0.0	0.0	2.744	0.0	0.0	0.0	0.0
9	NR	NR	NR	0.042	0.0	0.0	0.0	0.156	0.0	0.0	0.0	0.0
10	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.785	0.0	0.0
12	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	NR	NR	NR	0.880	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	NR	NR	NR	0.174	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	NR	NR	NR	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.053	0.0
20	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.099	0.0
21	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	NR	NR	NR	0.994	0.0	0.0	0.0	0.0	0.750	0.0	1.187	0.0
25	NR	NR	NR	0.020	0.0	0.0	0.031	0.0	0.173	0.0	0.021	0.0
26	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	2.167	0.0	0.0	0.0
27	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.112	0.0	0.0	0.0
28	NR	NR	NR	0.0	0.0	0.0	0.016	0.0	0.004	0.0	0.0	0.0
29	NR		NR	0.0	0.0	0.0	0.434	0.0	0.0	0.0	0.0	0.0
30	NR		0.562	0.128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	NR		0.073	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN				0.0959	0.0170	0.0	0.0155	0.0935	0.1083	0.0253	0.0453	0.0250
INCRS				4.102	0.750	0.0	0.687	4.133	4.633	1.118	1.938	1.106
STA AV	0.133	0.293	0.752	0.970	1.527	0.879	0.565	0.236	0.608	0.627	0.453	0.328

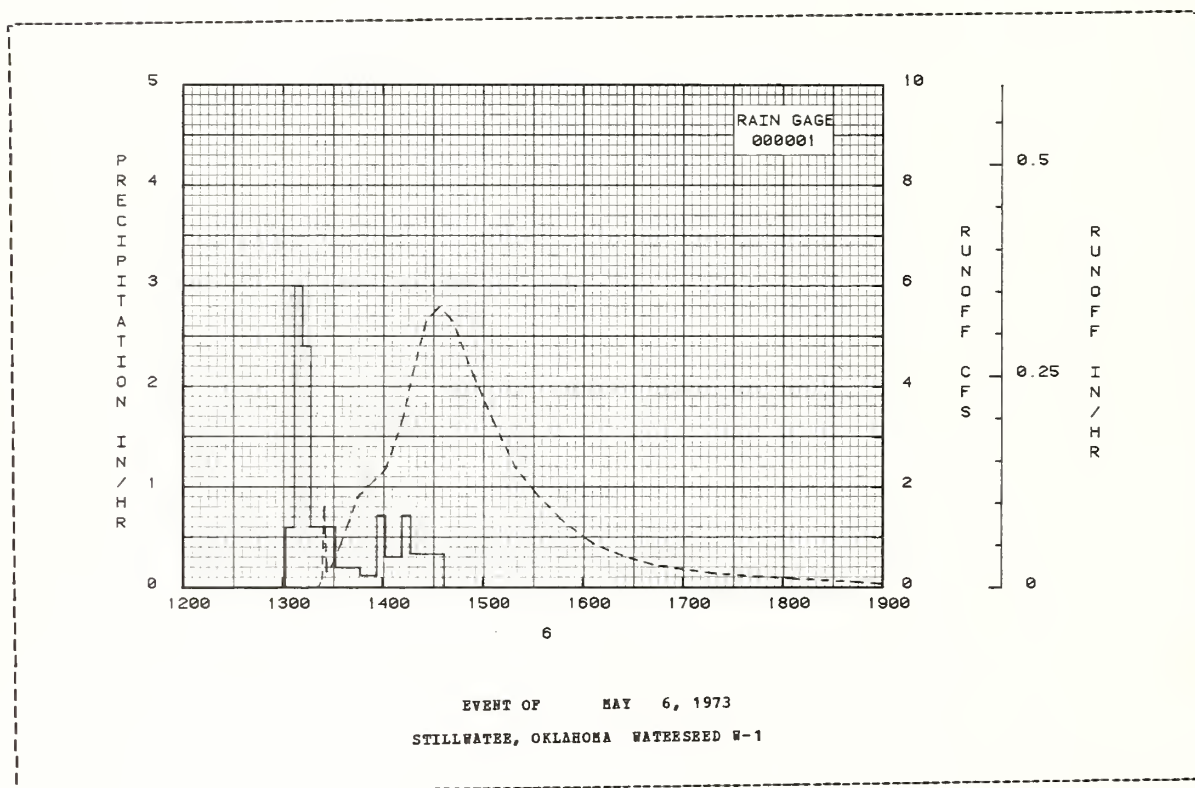
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.425249.

1973	SELECTED RUNOFF EVENT						STILLWATER, OKLAHOMA WATERSHED W-1					
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 6, 1973												
RG 000001			RG 000001									
5- 6	0.0	0.0	5- 6	1302	0.0	0.0	5- 6	1312	0.0	0.0		
				1307	0.6000	0.05		1314	0.0	0.0		
				1312	3.0000	0.30		1315	0.020	0.0000		
				1317	2.4000	0.50		1320	0.020	0.0001		
				1322	0.6000	0.55		1322	0.042	0.0002		
WATERSHED CONDITIONS:				1332	0.6000	0.65	1323	0.113	0.0002			
100% of area in native				1347	0.2000	0.70	1324	0.184	0.0004			
grass pasture in fair				1357	0.1200	0.72	1325	1.623	0.0013			
condition.				1402	0.7200	0.78	1327	0.320	0.0032			
			1412	0.3000	0.83	1329	0.406	0.0039				
			1417	0.7200	0.89	1332	0.591	0.0054				
			1437	0.3300	1.00	1335	0.862	0.0076				
						1339	1.223	0.0117				
						1345	1.802	0.0207				
						1356	2.172	0.0423				
						1402	2.374	0.0558				
						1412	3.334	0.0841				
						1418	4.243	0.1065				
						1426	5.304	0.1443				
						1434	5.591	0.1875				
						1442	5.304	0.2307				
						1454	4.243	0.2873				
						1506	3.334	0.3323				
						1520	2.374	0.3719				
						1534	1.802	0.4008				
						1549	1.303	0.4239				
						1607	0.862	0.4431				
						1624	0.631	0.4557				
						1642	0.461	0.4654				
						1700	0.360	0.4728				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385.

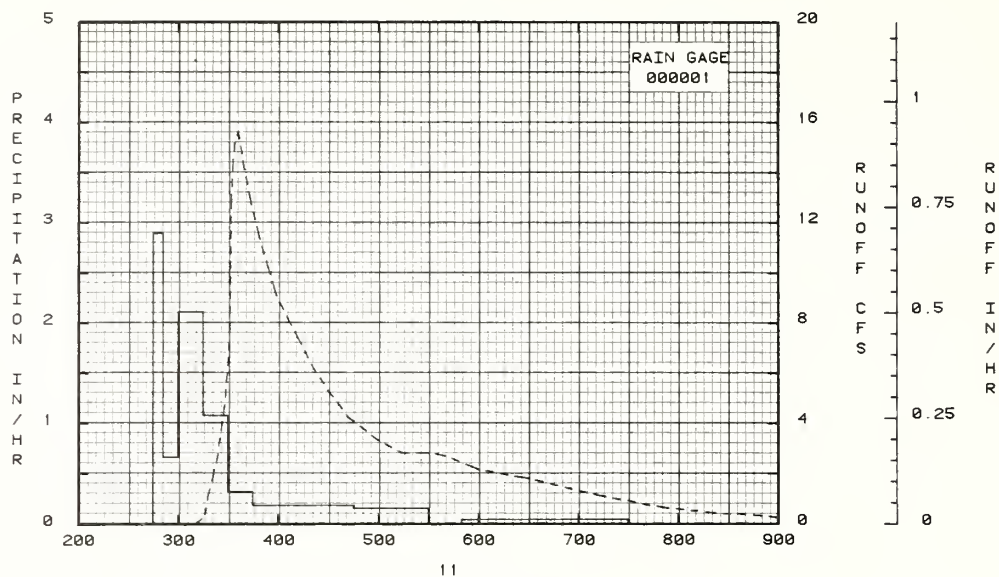
1973 SELECTED RUNOFF EVENT			STILLWATEE, OKLAHOMA WATERSEED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MAY 6, 1973 (CONTINUED)										
							5- 6	1720	0.281	0.4791
								1744	0.221	0.4851
								1810	0.165	0.4900
								1844	0.113	0.4947
								1940	0.067	0.4997

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385.



1973 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF OCTOBER 11, 1973										
RG 000001			RG 000001							
10-11	0.0	0.0	10-11	245	0.0	0.0	10-11	303	0.0	0.0
				251	2.8999	0.29		305	0.0	0.0
				300	0.6667	0.39		306	0.007	0.0
				315	2.1200	0.92		311	0.042	0.0001
				330	1.0800	1.19		312	0.113	0.0002
WATERSHED CONDITIONS: 100% of area in native grass pasture in fair condition.				345	0.3199	1.27		314	0.241	0.0005
				445	0.1900	1.46		316	0.406	0.0012
				530	0.1600	1.58		317	0.672	0.0017
				550	0.0	1.58		318	1.143	0.0026
				730	0.0480	1.66		321	1.886	0.0071
								324	2.829	0.0142
								326	3.789	0.0204
								328	4.765	0.0293
								329	5.725	0.0342
								330	6.332	0.0412
								331	7.780	0.0477
								332	13.164	0.0574
								333	14.562	0.0703
								334	15.222	0.0876
								336	15.657	0.1162
								339	14.418	0.1616
								343	13.019	0.2157
								349	11.354	0.2892
								354	10.240	0.3418
								359	9.091	0.3889
								406	8.184	0.4490
								414	7.157	0.5095
								420	6.332	0.5501
								430	5.304	0.6082
								442	4.243	0.6646
								500	3.334	0.7323
								514	2.829	0.7745
								530	2.829	0.8198
								540	2.711	0.8468
								600	2.172	0.8955
								630	1.802	0.9545
								712	1.143	1.0156
								750	0.672	1.0497
								818	0.461	1.0653
								850	0.320	1.0778

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.059385.



STILLWATER, OKLAHOMA WATERSHED W-3

LOCATION: Noble Co., Okla.; 15 mi. N. of Stillwater; Black Bear Creek, Arkansas River. Lat. 36 deg. 21 min. N.; Long. 97 deg. 04 min. W.

AREA: 92.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							STILLWATER, OKLAHOMA WATERSHED W-3											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual				
1973	P				4.99	2.46	1.87	7.80	6.13	9.70	2.17	3.06	1.30					
	Q				2.831	0.642	0.001	0.327	0.0	5.019	0.794	1.408	0.829					
STA AV	P	0.61	1.02	1.85	2.57	4.49	3.92	4.10	2.82	4.01	2.52	1.56	1.17	30.64				
	Q	0.054	0.164	0.561	0.755	1.314	0.707	0.466	0.069	0.550	0.520	0.269	0.192	5.621				
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval							2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	6 Hours	Date	12 Hours	Date	1 Day	Date	Vol.	Date	Vol.	
1973		9-24	0.765	9-27	0.586	9-27	0.943	9-27	1.787	9-27	2.592	9-27	2.693	9-25	2.913	9-24	4.974	
MAXIMUMS FOR PERIOD OF RECORD																		
		7-15	4.739	7-15	2.896	7-15	3.486	7-15	3.796	10- 2	4.957	10- 1	5.185	10- 1	6.083	9-30	8.143	
		1951		1951		1951		1951		1959		1959		1959		1959		

NOTES: Watershed conditions: All native grass cover, 32% in hay meadow and 68% in pasture. The hay meadow produced 1.14 tons per acre, approximately 0.5 ton per acre less than in 1971. The pasture was grazed using normal procedures for the year. For map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, USDA, ARS, Jan. 1960, p. 37.2-6. Precipitation data obtained from R-3 recording rain gage. Precipitation and runoff records began July 1951. STA AV based on 23 yr (1951-73) record period. Runoff and precipitation records (Jan. 1, 1973 thru March 29, 1973) are missing due to transfer of operation; station operated by Oklahoma Agricultural Experiment Station as of March 30, 1973. Part year records are included in STA AV. For long-time precipitation records, see National Weather Service records at Stillwater, Oklahoma.

1973 DAILY PRECIPITATION (inches)													STILLWATER, OKLAHOMA WATERSHED W-3												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0												
2	NR	NR	NR	NR	0.03	0.0	0.40	0.18	0.0	0.0	0.0	0.0	0.0												
3	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	1.10												
4	NR	NR	NR	NR	0.0	0.0	0.76	0.0	0.0	2.45	0.15	0.0	0.05												
5	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
6	NR	NR	NR	NR	0.0	0.94	0.0	0.0	0.0	0.09	0.23	0.0	0.0												
7	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0												
8	NR	NR	NR	NR	1.07	0.0	0.0	0.0	5.49	0.90	0.0	0.0	0.0												
9	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0												
10	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0												
11	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	1.50	0.0	0.0												
12	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0												
13	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.19	0.0	0.07	0.0	0.0												
14	NR	NR	NR	NR	0.0	0.0	0.36	1.93	0.0	0.0	0.0	0.0	0.0												
15	NR	NR	NR	NR	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
16	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
17	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
18	NR	NR	NR	NR	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.08												
19	NR	NR	NR	NR	0.20	0.0	0.24	0.0	0.0	0.0	0.0	1.06	0.07												
20	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
21	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
22	NR	NR	NR	NR	0.0	0.0	0.0	0.70	0.0	0.49	0.0	0.0	0.0												
23	NR	NR	NR	NR	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.17	0.0												
24	NR	NR	NR	NR	1.61	0.13	0.0	0.0	0.0	1.99	0.0	1.58	0.0												
25	NR	NR	NR	NR	0.0	0.0	0.0	2.13	0.0	0.0	0.0	0.0	0.0												
26	NR	NR	NR	NR	0.0	0.09	0.0	0.0	0.0	3.11	0.0	0.0	0.0												
27	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.08	0.22	0.25	0.0												
28	NR	NR	NR	NR	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0												
29	NR	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
30	NR	NR	NR	NR	0.0	0.66	0.26	0.0	1.86	0.0	0.0	0.0	0.0												
31	NR	NR	NR	NR	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
TOTAL					4.99	2.46	1.87	7.80	6.13	9.70	2.17	3.06	1.30												
STA AV		0.61	1.02	1.85	2.57	4.49	3.92	4.10	2.82	4.01	2.52	1.56	1.17												

NOTES: Amounts recorded at rain gage R-3 used for current monthly totals and for runoff events. STA AV based on 23 yr (1951-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) STILLWATER, OKLAHOMA WATERSHED W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	NR	NR	NR	0.0	0.968	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.769
4	NR	NR	NR	0.0	0.0	0.003	0.0	0.0	0.029	0.0	0.0	0.413
5	NR	NR	NR	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.023
6	NR	NR	NR	0.0	1.513	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	NR	NR	NR	2.262	0.0	0.0	0.0	0.0	0.145	0.0	0.0	0.0
9	NR	NR	NR	0.128	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	3.069	0.0	0.0
12	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	NR	NR	NR	3.671	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	NR	NR	NR	0.713	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	NR	NR	NR	0.052	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0
20	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.031	0.0
21	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0
24	NR	NR	NR	4.012	0.0	0.0	0.0	0.0	2.189	0.0	5.120	0.0
25	NR	NR	NR	0.035	0.0	0.0	0.003	0.0	6.587	0.0	0.063	0.0
26	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0
27	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	10.412	0.0	0.208	0.0
28	NR	NR	NR	0.0	0.0	0.0	0.012	0.0	0.036	0.0	0.011	0.0
29	NR	NR	NR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	NR	NR	2.291	0.070	0.0	0.0	1.247	0.0	0.0	0.0	0.0	0.0
31	NR	NR	0.223		0.0		0.0	0.0		0.0		0.0
MEAN				0.3648	0.0800	0.0002	0.0407	0.0	0.6467	0.0990	0.1814	0.1034
INCRS				2.831	0.642	0.001	0.327	0.0	5.019	0.794	1.408	0.829
STA AV	0.054	0.164	0.561	0.755	1.314	0.707	0.466	0.069	0.550	0.520	0.269	0.192

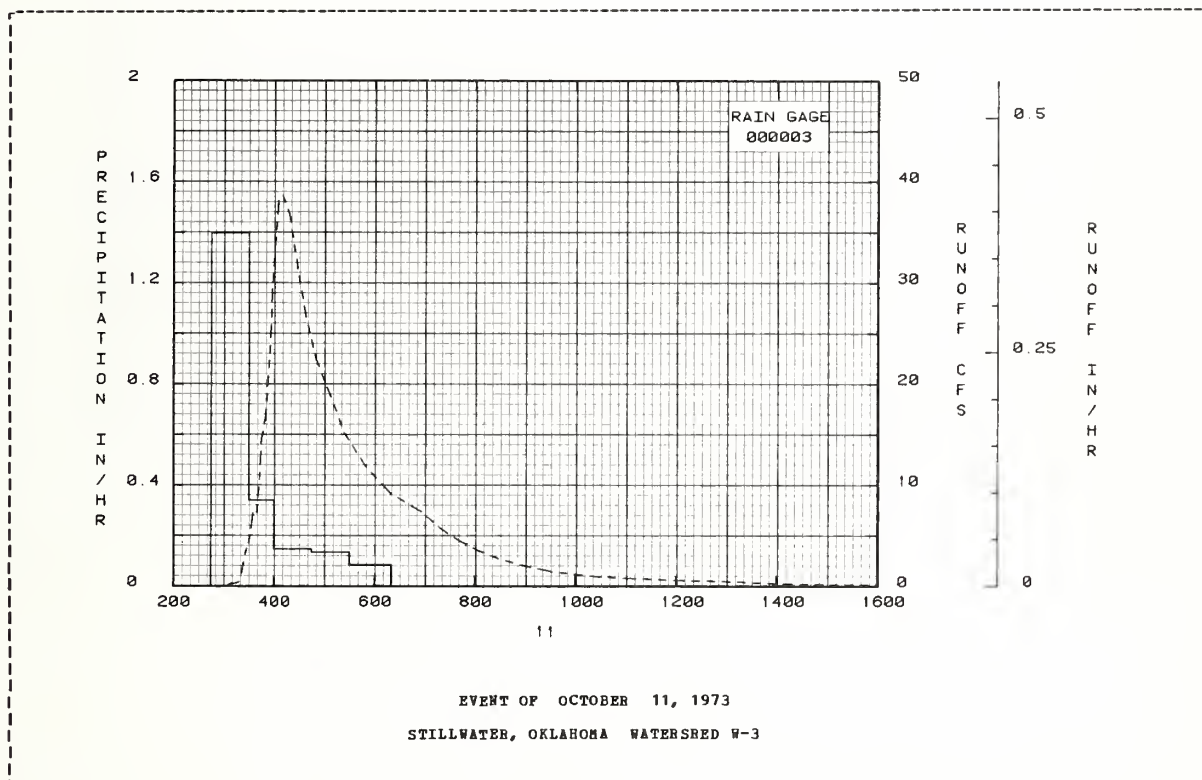
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.258714.

1973 SELECTED RUNOFF EVENT STILLWATER, OKLAHOMA WATERSHED W-3									
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Mainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs) (inches)
EVENT OF OCTOBER 11, 1973									
10-11	NR 000003	0.0	10-11	NR 000003			10-11	258	0.0
				245	0.0	0.0		300	0.0
				300	1.4000	0.35		306	0.132
				330	1.4000	1.05		310	0.307
				400	0.3400	1.22		312	0.264
				445	0.1467	1.33			
				530	0.1333	1.43		319	0.453
				620	0.0840	1.50		322	1.374
								324	2.393
								326	3.237
								328	3.751
								330	4.249
								334	6.389
								335	7.252
								340	7.285
								342	9.792
								344	12.582
								345	14.599
								350	16.772
								353	20.848
								356	25.120
								358	29.422
								401	33.779
								405	38.204
								410	38.667
								418	36.759
								428	31.397
								438	26.556
								450	22.435
								508	18.701
								524	15.138

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01078.

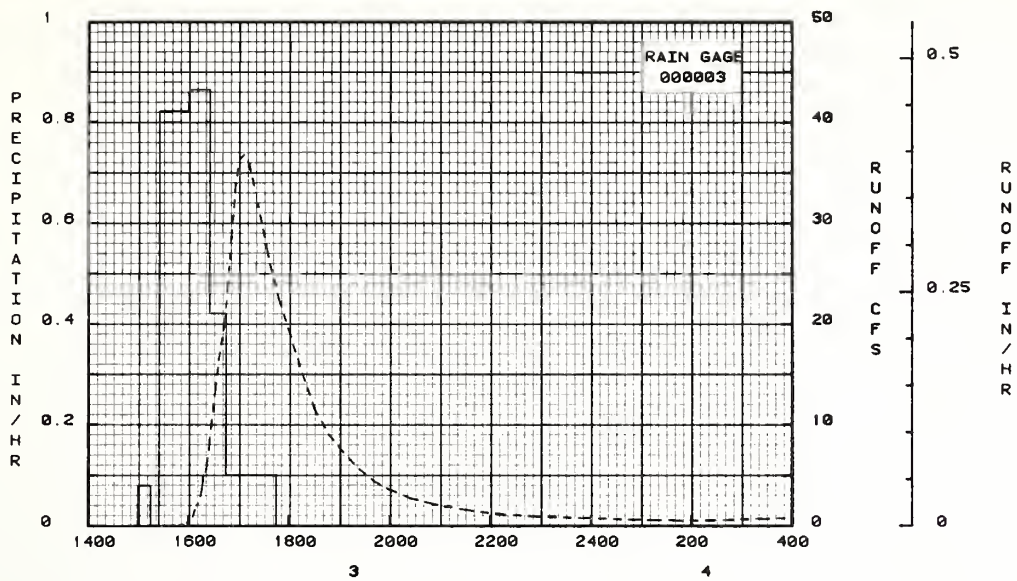
1973 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-3					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
								Rate
								(cfs)
								Acc.
								(inches)
EVENT OF OCTOBER 11, 1973 (CONTINUED)								
				10-11			550	11.788
							620	0.5490
							656	0.6053
							720	0.6582
							742	0.6863
								0.7062
							802	0.7205
							828	0.7351
							858	0.7477
							932	0.7581
							1000	0.7645
							1030	0.7699
							1112	0.7758
							1210	0.7822
							1256	0.7862

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.01078.



1973 SELECTED RUNOFF EVENT			STILLWATER, OKLAHOMA WATERSHED W-3							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF DECEMBER 3 - 4, 1973										
12- 3	RG 000003 0.0	0.000	12- 3	RG 000003 1500	0.0	0.0	12- 3	1530	0.016	0.0
				1515	0.0800	0.02		1544	0.037	0.0001
				1525	0.0	0.02		1549	0.067	0.0001
				1600	0.8228	0.50		1554	0.144	0.0002
				1625	0.8640	0.86		1558	0.279	0.0004
WATERSHED CONDITIONS: 100% of area in native grass; 32% in hay meadow in good condition, 46% in pas- ture in fair condition, and 22% in pasture in poor condition.				1645	0.4200	1.00		1601	0.405	0.0005
				1745	0.1000	1.10		1605	0.809	0.0010
								1608	1.571	0.0016
								1610	2.042	0.0022
								1612	2.169	0.0030
								1616	3.551	0.0051
								1618	4.998	0.0065
								1621	5.285	0.0093
								1623	6.711	0.0116
								1625	8.005	0.0141
								1627	9.792	0.0175
								1629	11.323	0.0210
								1632	13.409	0.0278
								1636	16.415	0.0385
								1643	20.070	0.0615
								1647	24.212	0.0773
								1651	28.548	0.0962
								1655	33.189	0.1183
								1700	36.254	0.1505
								1706	36.792	0.1889
								1712	35.895	0.2287
								1723	31.526	0.2955
								1735	26.618	0.3579
								1748	22.409	0.4147
								1802	18.636	0.4665
								1816	15.032	0.5090
								1830	11.642	0.5427
								1847	8.984	0.5740
								1905	7.228	0.6003
								1924	5.563	0.6221
								1941	4.399	0.6372
								2000	3.540	0.6509
								2025	2.699	0.6648
								2057	2.012	0.6784
								2140	1.423	0.6916
								2210	1.135	0.6985
								2300	0.857	0.7075
								2400	0.710	0.7160
							12- 4	50	0.590	0.7218
								115	0.538	0.7243
								150	0.494	0.7276
								220	0.510	0.7303
								250	0.582	0.7332
								324	0.692	0.7371
								400	0.755	0.7418

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.01078.



EVENT OF DECEMBER 3 - 4, 1973
STILLWATER, OKLAHOMA WATERSHED W-3

RIESEL (WACO), TEXAS WATERSHED C

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin. Lat. 31 deg. 31 min. 11 sec. N.; Long. 96 deg. 53 min. 34 sec. W.

AREA: 579.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED C	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	4.89	1.52	5.36	5.82	4.09	6.25	2.00	1.10	4.46	9.44	1.26	1.58	47.76	
	Q	1.930	0.340	2.694	2.905	1.083	2.785	0.0	0.0	0.0	2.446	0.015	0.111	14.309	
STA AV	P	1.99	2.69	2.25	3.86	3.89	3.42	1.85	2.51	3.28	3.27	3.03	2.40	34.43	
	Q	0.502	0.601	0.677	1.014	0.870	0.665	0.220	0.165	0.321	0.403	0.505	0.588	6.530	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		4-24	0.979	4-24	0.859	4-24	1.344	4-24	1.807	4-24	1.920	4-23	1.983	4-23	2.125
														5-31	2.778
MAXIMUMS FOR PERIOD OF RECORD															
		3-29	1.580	3-29	1.500	3-29	2.520	3-29	3.550	3-29	3.800	3-29	4.480	9-7	4.780
		1965		1965		1965		1965		1965		1965		1942	1957

NOTES: Watershed conditions: 74% pasture; 9% grain sorghum; 2% oats; 10% bare; 2% gravel and paved roads; 3% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 5, 14 and 20. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY AIR TEMPERATURE (degrees F)														RIESEL (WACO), TEXAS WATERSHED C	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min			
1	58 35	68 39	65 42	74 46	74 67	85 68	93 74	91 73	93 72	85 64	70 48	69 45			
2	46 36	61 36	67 48	72 52	79 60	88 66	92 72	89 69	90 73	84 65	77 55	71 50			
3	42 36	60 35	65 48	77 49	71 48	88 73	93 72	89 69	93 72	87 71	81 53	73 53			
4	59 38	64 35	70 48	59 38	71 52	76 65	92 73	88 65	92 71	87 72	67 57	73 42			
5	53 39	73 47	64 47	62 38	75 52	89 72	95 73	87 64	85 67	84 64	81 52	64 35			
6	44 31	71 48	73 51	65 48	75 58	82 64	95 66	89 68	74 64	79 64	55 50	55 35			
7	36 31	65 48	75 48	55 47	78 51	83 65	87 70	93 71	82 67	83 69	60 51	54 33			
8	36 27	67 29	76 51	58 45	81 61	85 66	89 71	93 71	85 69	86 68	76 60	55 33			
9	27 22	31 28	74 55	53 33	83 61	85 66	89 72	93 74	90 72	86 68	83 54	59 35			
10	24 21	38 23	70 48	56 32	85 61	83 67	90 74	93 73	91 74	87 70	57 48	59 31			
11	30 23	46 26	72 46	60 39	87 65	87 71	89 72	95 69	94 73	89 64	62 43	54 34			
12	27 8	53 32	78 51	68 48	78 65	81 66	88 73	95 71	88 73	71 63	65 48	69 40			
13	31 10	67 55	82 59	72 55	77 56	71 68	90 71	89 72	90 74	80 63	74 54	81 45			
14	49 24	71 38	75 55	77 61	77 59	81 68	88 69	93 74	93 69	72 64	80 54	66 40			
15	62 34	52 30	78 59	67 56	71 52	90 71	88 71	92 67	85 59	69 65	81 65	73 38			
16	67 39	54 29	64 47	69 55	75 52	92 74	87 72	94 68	85 60	69 64	77 45	56 33			
17	65 46	48 32	62 41	64 53	80 56	91 75	89 74	93 69	85 65	69 51	70 49	49 29			
18	73 58	41 36	70 47	67 54	81 56	92 74	91 73	93 71	88 57	71 50	75 54	65 32			
19	70 43	48 37	73 52	75 58	90 65	93 73	91 73	89 71	83 59	76 51	81 65	73 37			
20	68 45	58 39	75 45	83 67	91 68	92 65	91 73	92 71	88 66	78 52	79 51	48 23			
21	74 45	52 40	66 41	79 69	89 69	83 67	92 73	95 71	89 67	79 56	67 43	41 23			
22	58 39	52 43	64 47	72 68	89 64	84 68	92 73	96 74	91 66	79 57	72 46	54 26			
23	58 35	46 42	68 55	73 68	86 68	87 69	92 73	96 66	88 70	81 57	77 61	66 35			
24	50 30	50 36	71 53	74 68	87 68	87 70	92 73	97 67	88 71	81 54	79 65	69 45			
25	54 32	59 41	73 49	77 60	87 70	83 70	92 73	95 70	93 75	81 54	80 47	58 37			
26	40 34	69 48	66 43	75 56	84 60	89 64	97 74	93 69	94 74	83 66	70 53	48 38			
27	50 37	59 45	64 47	69 49	87 66	89 67	95 73	92 69	93 69	80 64	74 55	62 31			
28	62 33	57 38	65 51	66 51	83 60	91 71	94 72	92 69	74 59	75 48	70 38	55 34			
29	44 21		75 58	73 55	80 61	94 78	95 72	93 68	78 58	73 43	60 37	74 44			
30	47 25		77 61	71 63	85 62	90 75	94 74	91 69	84 60	70 52	68 41	58 37			
31	57 34		66 47		85 63		92 73	91 69		71 51		79 35			
AV.	50 33	56 38	70 50	69 53	81 61	86 69	91 72	92 70	88 68	79 60	72 51	62 36			
MEAN	41.5	47.1	60.1	60.8	71.0	77.8	81.9	81.0	77.6	69.5	61.9	49.4			
STA AV	58 38	62 40	69 47	77 56	83 63	89 70	93 72	93 72	88 66	81 57	68 46	61 39			

NOTES: Temperature data taken daily with maximum and minimum thermometers. Readings were taken at 0800 of the day shown. STA AV based on 35 yr (1939-1973) period.

1973 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED C	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.05E	0.0	0.65	0.0	0.0	1.66	0.0	0.0	0.0	0.96	0.0	0.0		
2	0.66	0.0	0.0	0.38	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.50	0.0	0.0	0.0	0.0	2.65	0.0	0.0	0.0	0.0	0.0	0.35		
4	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0		
5	0.0	0.0	0.04E	0.0	0.32	0.92	0.0	0.0	0.30	0.05	0.0	0.0		
6	0.28	0.0	0.11E	0.21	0.52	0.0	1.41	0.0	0.81	0.71	0.0	0.0		
7	0.33	0.45	0.0	0.0	0.0	0.0	0.0	0.04E	0.06E	0.0	0.0	0.0		
8	0.0	0.17	0.0	0.19	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.43	0.0	0.0	0.06E	0.0	0.0	0.0	0.18E	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.20E	0.0	0.0	0.0	2.71	0.0	0.0		
12	0.17S	0.0	0.0	0.0	0.0	0.11E	0.10E	0.0	0.0	0.20	0.0	0.0		
13	0.0	0.0	0.03E	0.0	0.06E	0.02E	0.0	0.0	0.0	0.96	0.0	0.0		
14	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0		
15	0.0	0.0	0.37	1.03	0.0 E	0.0	0.14E	0.0	0.0	0.70	0.0	0.0		
16	0.0	0.0	0.78	0.0	0.0	0.0	0.18E	0.0	0.0	0.38	0.0	0.0		
17	0.0	0.21	0.0	0.69	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0		
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.01E	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.31	1.03		
20	0.30	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.36	0.0		
21	0.0	0.26	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.42	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.02E	0.0	0.42	0.0 E	0.0	0.0	0.0	0.02E	0.0	0.20	0.20		
24	0.0	0.0	2.50	2.36	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0		
25	2.12	0.0	0.0	0.04E	3.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.27	0.35	3.29E	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19E	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	1.61	0.0	0.0		
31	0.45	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0		
TOTAL	4.89	1.52	5.36	5.82	4.09	6.25	2.00	1.10	4.46	9.44	1.26	1.58		
STA AV	1.99	2.69	2.25	3.86	3.89	3.42	1.85	2.51	3.28	3.27	3.03	2.40		

NOTES: Precipitation values are Thiessen weighted average of rain gages 5, 14, and 20. Records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 28 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs)													RIESEL (WACO), TEXAS WATERSHED C	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.001	1.062	4.653	0.002	0.003	7.522	0.0	0.0	0.0	0.0	0.232	0.0		
2	0.007	0.154	1.786	0.002	0.002	2.833	0.0	0.0	0.0	0.0	0.054	0.0		
3	6.091	0.053	0.303	0.004	0.002	42.053	0.0	0.0	0.0	0.0	0.019	0.003		
4	0.391	0.031	0.173	0.005	0.001	3.069	0.0	0.0	0.0	0.0	0.010	0.006		
5	0.117	0.023	0.090	0.003	0.002	9.253	0.0	0.0	0.0	0.0	0.004	0.001		
6	0.057	0.017	0.095	0.002	0.008	2.776	0.0	0.0	0.0	0.0	0.002	0.0		
7	3.447	0.020	0.081	0.003	0.443	0.190	0.0	0.0	0.0	0.0	0.002	0.0		
8	0.548	2.949	0.045	0.004	0.062	0.037	0.0	0.0	0.0	0.0	0.002	0.0		
9	0.103	0.371	0.116	0.004	0.012	0.010	0.0	0.0	0.0	0.0	0.0 T	0.0		
10	0.033	0.105	6.550	0.006	0.002	0.003	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.030	0.055	0.438	0.004	0.001	0.002	0.0	0.0	0.0	24.011	0.0	0.0		
12	0.029	0.039	0.101	0.002	0.0 T	0.002	0.0	0.0	0.0	0.668	0.0	0.0		
13	0.105	0.031	0.055	0.0 T	0.0	0.002	0.0	0.0	0.0	8.865	0.0	0.0		
14	0.242	0.017	0.036	0.002	0.0	0.001	0.0	0.0	0.0	0.465	0.0	0.0		
15	0.120	0.010	0.040	4.738	0.0	0.0 T	0.0	0.0	0.0	1.482	0.0	0.0		
16	0.061	0.007	10.763	3.851	0.0	0.0 T	0.0	0.0	0.0	8.875	0.0	0.0		
17	0.044	0.012	0.395	7.817	0.0	0.0	0.0	0.0	0.0	0.368	0.0	0.0		
18	0.034	0.010	0.106	1.184	0.0	0.0	0.0	0.0	0.0	0.060	0.0	0.0		
19	0.020	0.010	0.047	0.253	0.0	0.0	0.0	0.0	0.0	0.017	0.001	2.380		
20	0.021	0.007	0.023	0.113	0.0	0.001	0.0	0.0	0.0	0.006	0.007	0.208		
21	0.246	0.022	0.014	0.058	0.0	0.001	0.0	0.0	0.0	0.002	0.003	0.045		
22	0.066	1.458	0.008	0.102	0.0	0.001	0.0	0.0	0.0	0.001	0.003	0.019		
23	0.024	1.252	0.005	2.434	0.0	0.0	0.0	0.0	0.0	0.0 T	0.004	0.016		
24	0.015	0.312	39.003	48.228	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.011		
25	30.893	0.118	0.462	1.551	9.453	0.0	0.0	0.0	0.0	0.0	0.002	0.006		
26	2.383	0.000	0.077	0.218	16.165	0.0	0.0	0.0	0.0	0.002	0.004	0.004		
27	0.381	0.038	0.021	0.043	0.158	0.0	0.0	0.0	0.0	0.001	0.003	0.001		
28	0.089	0.027	0.017	0.014	0.017	0.0	0.0	0.0	0.0	0.001	0.0 T	0.001		
29	0.031	0.011	0.011	0.005	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.001		
30	0.022	0.007	0.003	0.003	0.0 T	0.0	0.0	0.0	0.0	7.872	0.0	0.001		
31	1.303	0.004	0.004	0.0	0.0 T	0.0	0.0	0.0	0.0	6.814	0.0	0.0		
MEAN	1.5146	0.2954	2.1140	2.3552	0.8496	2.2585	0.0	0.0	0.0	1.9196	0.0118	0.0872		
INCHES	1.930	0.340	2.694	2.905	1.083	2.785	0.0	0.0	0.0	2.446	0.015	0.111		
STA AV	0.502	0.601	0.677	1.014	0.870	0.065	0.220	0.165	0.321	0.403	0.505	0.588		

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.041108. Records began Feb. 1938; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 28 yr period.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED C							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973										
3-24	RG 000014		3-24	EG 000014			3-24			
	0.0	0.0		50	0.0	0.0		100	0.009	0.0
				110	0.1500	0.05		110	0.012	0.0
				130	0.1500	0.10		120	0.014	0.0
				135	0.4800	0.14		130	0.020	0.0
				140	1.2000	0.24		140	0.033	0.0000
WATERSHED CONDITIONS: 74% pasture; 9% grain sorghum; 2% oats; 10% bare; 2% gravel and paved roads; 3% other. Approx. 90% of other is Johnsongrass and weeds in conservation reserve, neither tilled nor grazed.				145	2.6400	0.46		144	0.043	0.0000
				150	2.6400	0.68		146	0.073	0.0000
				200	1.0800	0.86		148	0.103	0.0000
				210	1.3200	1.08		150	0.142	0.0000
				215	3.9600	1.41		152	0.184	0.0000
				220	2.5200	1.62		154	0.263	0.0000
				225	0.9600	1.70		156	0.348	0.0001
				230	0.6000	1.75		158	0.412	0.0001
				235	0.8400	1.82		200	0.563	0.0001
				240	1.2000	1.92		202	0.666	0.0001
				245	0.7200	1.98		204	0.887	0.0002
				250	0.8400	2.05		206	1.142	0.0002
				255	1.4400	2.17		208	1.620	0.0003
				300	0.8400	2.24		210	2.327	0.0004
				310	0.3000	2.29		212	2.733	0.0006
				320	0.1200	2.31		214	3.783	0.0008
				330	0.1800	2.34		216	5.324	0.0010
				340	0.7800	2.47		218	7.268	0.0014
				350	0.1800	2.50		220	11.612	0.0019
				410	0.1500	2.55		222	19.445	0.0028
				440	0.0400	2.57		224	25.947	0.0041
				510	0.1000	2.62		226	35.865	0.0059
								228	42.448	0.0081
								230	47.065	0.0107
								232	51.947	0.0135
								234	55.928	0.0166
								236	62.150	0.0199
								238	67.415	0.0236
								240	73.007	0.0276
								242	80.302	0.0320
								244	87.248	0.0368
								246	97.142	0.0421
								248	108.536	0.0479
								250	139.501	0.0550
								252	158.964	0.0635
								254	178.975	0.0732
								256	200.577	0.0840
								258	220.215	0.0960
								300	242.871	0.1093
								304	266.858	0.1384
								308	288.314	0.1701
								312	305.937	0.2040
								316	322.940	0.2399
								320	334.187	0.2774
								328	346.249	0.3551
								340	327.792	0.4705
								350	304.091	0.5608
								400	275.311	0.6435
								410	250.684	0.7185
								420	226.355	0.7866
								430	204.592	0.8482
								440	180.192	0.9030
								450	160.910	0.9518
								500	144.823	0.9954
								510	129.317	1.0345
								520	109.399	1.0686
								530	98.896	1.0983
								540	91.262	1.1255
								550	83.934	1.1505
								600	76.789	1.1734
								610	71.231	1.1945
								620	65.861	1.2141
								630	59.470	1.2320
								640	54.886	1.2483
								650	50.473	1.2634

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001713.

RIESEL (WACO), TEXAS WATERSHED D

LOCATION: McLennan Co., Texas; 14 mi. ESE of Waco; Brazos River Basin. Lat. 31 deg. 30 min. 38 sec. N.; Long. 96 deg. 53 min. 22 sec. W.

AREA: 1110.00 acres 1.73 sq. miles

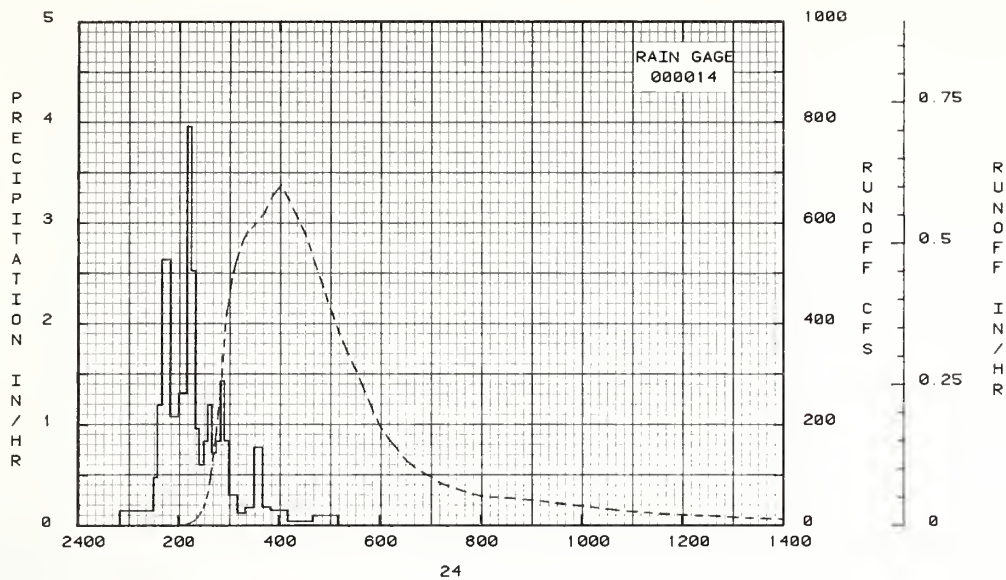
MONTHLY PRECIPITATION AND RUNOFF (inches)							RIESEL (WACO), TEXAS WATERSHED D										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	4.90	1.54	5.39	5.61	4.06	6.04	1.97	1.11	4.36	9.17	1.26	1.54	46.94			
	Q	1.935	0.248	2.840	2.979	1.035	2.789	0.0	0.0	0.0	2.369	0.012	0.074	14.281			
STA AV	P	2.06	2.68	2.31	3.84	3.81	3.47	1.86	2.40	3.21	3.13	2.95	2.40	34.13			
	Q	0.524	0.584	0.706	1.056	0.959	0.669	0.236	0.182	0.312	0.405	0.493	0.573	6.699			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time		Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		4-24	1.072	4-24	0.967	4-24	1.581	4-24	2.174	4-24	2.283	4-23	2.327	4-23	2.429	5-31	2.783
MAXIMUMS FOR PERIOD OF RECORD																	
		3-29	2.110	3-29	1.930	3-29	3.150	3-29	4.590	3-29	4.880	3-29	5.630	3-29	5.690	4-19	9.660
		1965		1965		1965		1965		1965		1965		1965		1957	

NOTES: Watershed conditions: 69% pasture; 13% sorghum; 7% bare; 1% oats; 2% gravel and paved roads; 8% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20 and 26A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED D	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.03E	0.0	3.70	0.0	0.0	1.63	0.0	0.0	0.0	0.96	0.0	0.0		
2	0.66	0.0	0.0	0.28	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.50	0.0	0.0	0.0	0.0	2.71	0.0	0.0	0.0	0.0	0.0	0.33		
4	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0		
5	0.0	0.0	0.03E	0.0	0.31	0.78	0.0	0.0	0.28	0.02	0.0	0.0		
6	0.27	0.0	0.15E	0.20	0.52	0.0	1.42	0.0	0.78	0.72	0.0	0.0		
7	0.36	0.45	0.0	0.0	0.0	0.0	0.0	0.03E	0.07E	0.0	0.0	0.0		
8	0.0	0.17	0.0	0.20	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.43	0.0	0.0	0.05E	0.0	0.0	0.0	0.19E	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	2.68	0.0	0.0		
12	0.16S	0.0	0.0	0.0	0.0	0.12E	0.05E	0.0	0.0	0.17	0.0	0.0		
13	0.0	0.0	0.03E	0.0	0.04E	0.02E	0.0	0.0	0.0	0.94	0.0	0.0		
14	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0		
15	0.0	0.0	0.32	0.95	0.0 E	0.0	0.15E	0.0	0.0	0.67	0.0	0.0		
16	0.0	0.0	0.80	0.0	0.0	0.0	0.24E	0.0	0.0	0.33	0.0	0.0		
17	0.0	0.22	0.0	0.69	0.0	0.0	0.0	0.95	0.0	0.0	0.0	0.0		
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.01E	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.31	1.01		
20	0.30	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.36	0.0		
21	0.0	0.25	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.43	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.02E	0.0	0.43	0.0 E	0.0	0.0	0.0	0.02E	0.0	0.22	0.20		
24	0.0	0.0	2.52	2.31	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0		
25	2.14	0.0	0.0	0.04E	3.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.23	0.33	0.27E	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.85	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	1.57	0.0	0.0		
31	0.45	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0		
TOTAL	4.90	1.54	5.39	5.61	4.06	6.04	1.97	1.11	4.36	9.17	1.26	1.54		
STA AV	2.06	2.68	2.31	3.84	3.81	3.47	1.86	2.40	3.21	3.13	2.95	2.40		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, and 26A. Records began Dec. 1937; station not in operation July 1943 to Mar. 1, 1949; part-year amounts not included in averages. STA AV based on 29 yr period. Estimate codes may indicate that non-significant event totals are included.

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000893.



EVENT OF MARCH 24, 1973
RIESEL (WACO), TEXAS WATERSHED D

RIESEL (WACO), TEXAS WATERSHED G

LOCATION: McLennan and Falls Counties, Texas; 16 mi. S.E. of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 59 sec. N.; Long. 96 deg. 52 min. 06 sec. W.

AREA: 4380.00 acres 6.84 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED G	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	4.96	1.51	5.37	5.22	4.01	6.67	2.28	0.80	3.86	8.88	1.13	1.41	46.12	
	Q	2.383	0.400	2.982	2.545	1.055	3.577	0.009	0.0	0.0	2.318	0.020	0.045	15.333	
STA AV	P	2.26	2.77	2.30	3.59	3.41	4.18	2.15	2.74	3.37	3.37	2.97	2.67	35.78	
	Q	0.757	0.725	0.797	0.755	0.685	1.012	0.270	0.161	0.294	0.323	0.545	0.651	6.975	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	Date	Vol.	Date	Vol.	Date	Vol.
1973		6-3	0.573	6-3	0.518	6-3	0.920	6-3	1.952	6-3	2.253	6-3	2.324	6-3	2.416
														5-31	3.564
MAXIMUMS FOR PERIOD OF RECORD															
		3-29	0.950	3-29	0.910	3-29	1.720	3-29	3.390	3-29	3.940	3-29	4.030	3-29	4.740
		1965		1965		1965		1965		1965		1965		1965	11-22 4.820
														1940	

NOTES: Watershed conditions: 48% pasture; 4% tilled, but not planted; 3% cotton; 4% corn; 3% fall planted small grain, largely oats; 12% sorghum; 2% gravel and paved roads; 24% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.4-6. Precipitation and runoff records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED G	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.04E	0.0	0.91	0.0	0.0	2.11	0.0	0.0	0.0	1.15	0.0	0.0			
2	0.67	0.0	0.0	0.30	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.55	0.0	0.0	0.0	0.0	2.90	0.0	0.0	0.0	0.0	0.0	0.0			0.33
4	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.27E	0.0	0.0			0.0
5	0.0	0.0	0.02E	0.0	0.30	0.70	0.0	0.0	0.29	0.01	0.0	0.0			0.0
6	0.25	0.0	0.23E	0.22	0.51	0.0	1.60	0.0	0.77	0.70	0.0	0.0			0.0
7	0.37	0.40	0.0	0.0	0.0	0.0	0.0	0.07E	0.02E	0.0	0.0	0.0			0.0
8	0.0	0.19	0.0	0.21	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0			0.0
9	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
10	0.0	0.0	0.45	0.0	0.0	0.04E	0.0	0.0	0.0	0.27E	0.0	0.0			0.0
11	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	2.64	0.0	0.0			0.0
12	0.19S	0.0	0.0	0.0	0.0	0.18E	0.12E	0.0	0.0	0.14	0.0	0.0			0.0
13	0.0	0.0	0.02E	0.0	0.03E	0.03E	0.0	0.0	0.0	0.88	0.0	0.0			0.0
14	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.00E	0.0	0.12E	0.0	0.0			0.0
15	0.0	0.0	0.23	0.81	0.0E	0.0	0.18E	0.0	0.0	0.62	0.0	0.0			0.0
16	0.0	0.0	0.72	0.0	0.0	0.0	0.28E	0.0	0.0	0.28	0.0	0.0			0.0
17	0.0	0.22	0.0	0.65	0.0	0.0	0.0	0.65E	0.0	0.0	0.0	0.0			0.0
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
19	0.0	0.0	0.03E	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.93			0.0
20	0.25	0.0	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.34	0.0			0.0
21	0.0	0.24	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
22	0.0	0.43	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
23	0.0	0.04E	0.0	0.46	0.01E	0.0	0.0	0.0	0.04E	0.0	0.26	0.15E			0.0
24	0.02	0.0	2.39	2.01	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0			0.0
25	2.12	0.0	0.0	0.05E	3.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.01	0.19E	0.15E	0.0			0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.0			0.0
28	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.00E	0.0	0.0			0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0			0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	1.62	0.0	0.0			0.0
31	0.47		0.0		0.0		0.04E	0.0		0.0		0.0			0.0
TOTAL	4.96	1.51	5.37	5.22	4.01	6.67	2.28	0.80	3.86	8.88	1.13	1.41			
STA AV	2.26	2.77	2.30	3.59	3.41	4.18	2.15	2.74	3.37	3.37	2.97	2.67			

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 5, 14, 20, 26A, 30A, 43A, 48A, 56A, 65A, 70, 74A, 84A, and 89. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 21 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED G												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	14.53	11.98	67.40	0.05	0.21	112.49	0.0	0.0	0.0	0.0	2.13	0.0
2	29.09	1.83	27.55	0.04	0.18	50.76	0.0	0.0	0.0	0.0	0.43	0.0
3	42.31	0.75	3.60	0.37	0.08	373.20	0.0	0.0	0.0	0.0	0.14	0.00
4	4.70	0.47	2.32	0.05	0.04	57.65	0.0	0.0	0.0	0.0	0.09	0.02
5	1.62	0.38	1.27	0.03	0.03	36.84	0.0	0.0	0.0	0.0	0.06	0.00
6	0.98	0.34	4.87	0.06	0.56	24.47	1.50	0.0	0.0	0.0	0.04	0.0
7	36.40	0.40	2.13	0.17	6.60	1.63	0.03	0.0	0.0	0.0	0.05	0.0
8	6.32	21.66	0.88	0.16	0.70	0.37	0.0 T	0.0	0.0	0.0	0.05	0.0
9	1.41	4.09	1.14	0.15	0.16	0.14	0.0	0.0	0.0	0.0	0.03	0.0
10	0.42	1.45	55.43	0.06	0.04	0.09	0.0	0.0	0.0	0.0	0.01	0.0
11	0.51	0.84	4.25	0.04	0.01	0.09	0.0	0.0	0.0	186.66	0.01	0.0
12	0.67	0.60	1.22	0.04	0.01	0.22	0.0	0.0	0.0	7.17	0.01	0.0
13	2.19	0.52	0.64	0.03	0.0 T	0.17	0.04	0.0	0.0	55.41	0.01	0.0
14	3.95	0.34	0.51	0.15	0.0	0.12	0.01	0.0	0.0	3.71	0.01	0.0
15	2.66	0.19	0.74	7.30	0.0	0.04	0.01	0.0	0.0	4.43	0.00	0.0
16	1.30	0.14	57.53	26.67	0.0	0.00	0.02	0.0	0.0	56.38	0.00	0.0
17	0.99	0.28	3.83	42.26	0.0	0.0	0.01	0.0	0.0	3.17	0.00	0.0
18	0.84	0.44	1.34	10.86	0.0	0.0	0.0	0.0	0.0	0.55	0.00	0.0
19	0.45	0.35	0.67	2.26	0.0	0.0	0.0	0.0	0.0	0.14	0.02	6.40
20	0.37	0.27	0.40	0.83	0.0	0.0	0.0	0.0	0.0	0.06	0.20	1.38
21	1.92	0.81	0.23	0.51	0.0	0.02	0.0	0.0	0.0	0.04	0.05	0.28
22	0.84	8.58	0.20	1.14	0.0	0.01	0.0	0.0	0.0	0.03	0.02	0.10
23	0.32	10.45	0.17	23.24	0.0	0.0	0.0	0.0	0.0	0.03	0.06	0.05
24	0.18	3.19	303.33	332.50	0.0	0.0	0.0	0.0	0.0	0.03	0.13	0.05
25	234.26	1.43	4.79	15.67	35.64	0.0	0.0	0.0	0.0	0.03	0.05	0.03
26	32.95	0.84	1.13	2.32	147.39	0.0	0.0	0.0	0.0	0.03	0.04	0.02
27	4.09	0.52	0.54	0.67	1.83	0.0	0.0	0.0	0.0	0.03	0.02	0.00
28	1.35	0.40	0.28	0.28	0.41	0.0	0.0	0.0	0.0	0.02	0.00	0.00
29	0.54		0.15	0.18	0.23	0.0	0.0	0.0	0.0	0.01	0.0	0.0
30	0.43		0.12	0.17	0.04	0.0	0.0	0.0	0.0	26.87	0.0	0.0
31	9.89		0.10		0.00		0.0	0.0		81.72		0.0
MEAN	14.145	2.627	17.701	15.609	6.264	21.943	0.052	0.0	0.0	13.758	0.121	0.269
INCHES	2.383	0.400	2.982	2.545	1.055	3.577	0.009	0.0	0.0	2.318	0.020	0.045
STA AV	0.757	0.725	0.797	0.755	0.685	1.012	0.270	0.161	0.294	0.323	0.545	0.651

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.005434. Records began Jan. 1938; station not in operation July 1943 to July 1, 1957; part-year amounts not included in averages. STA AV based on 21 yr period.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED G							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24 - 25, 1973										
RG 000014			EG 000014							
3-24	0.05	0.0	3-24	110	0.0	0.0	3-24	105	0.198	0.0
				130	0.1500	0.05		135	0.227	0.0000
				135	0.4800	0.09		150	0.356	0.0000
				140	1.2000	0.19		155	0.443	0.0001
				145	2.6400	0.41		200	0.569	0.0001
WATERSHED CONDITIONS: 48% pasture, dormant, all classes; 4% tilled but not planted; 3% cotton; 4% corn; 3% fall planted small grain, mostly oats; 12% sorghum; 2% gravel and paved roads; 24% other. Approximately 90% of other is Johnsongrass and weeds in conservation re- serve, neither tilled nor grazed.				150	2.6400	0.63		205	0.840	0.0001
				200	1.0800	0.81		210	1.225	0.0001
				210	1.3200	1.03		215	2.579	0.0001
				215	3.9600	1.36		220	5.126	0.0002
				220	2.5200	1.57		225	7.726	0.0003
				225	0.9600	1.65		230	34.549	0.0007
				230	0.6000	1.70		235	67.000	0.0017
				235	0.8400	1.77		240	75.000	0.0030
				240	1.2000	1.87		245	118.000	0.0048
				245	0.7200	1.93		250	200.000	0.0078
				250	0.8400	2.00		255	248.000	0.0121
				255	1.4400	2.12		300	321.000	0.0174
				300	0.8400	2.19		305	412.000	0.0243
310	0.3000	2.24		310	465.000	0.0326				
320	0.1200	2.26		315	519.999	0.0419				
			330	0.1800	2.29		320	565.000	0.0522	
			340	0.7800	2.42		325	610.000	0.0632	
			350	0.1800	2.45		330	705.000	0.0757	
			410	0.1500	2.50		335	765.000	0.0895	
			440	0.0400	2.52		340	810.000	0.1043	
			510	0.1000	2.57		345	855.000	0.1201	
							350	895.000	0.1366	
							355	920.000	0.1537	
							400	960.000	0.1715	
							405	975.000	0.1897	

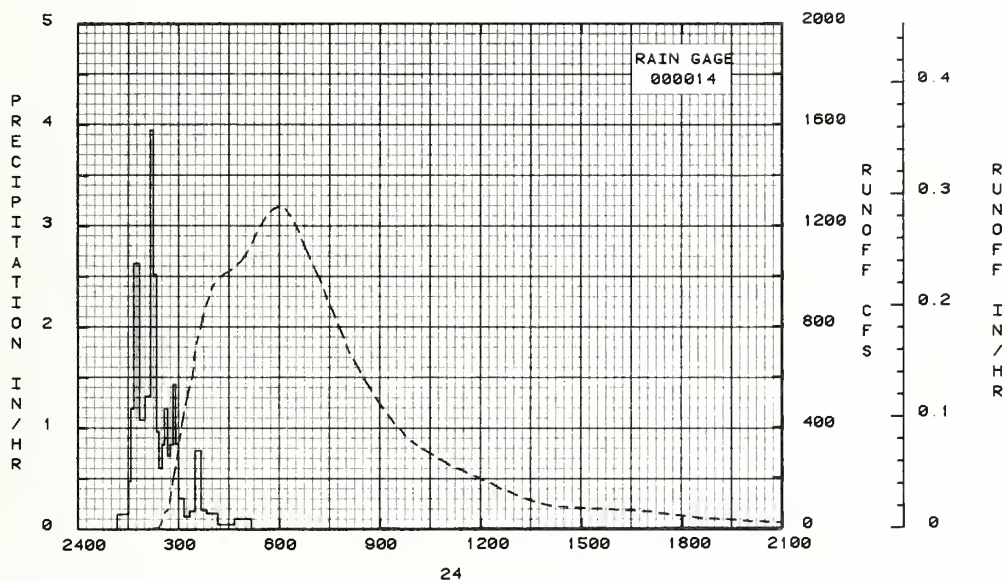
NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0002264.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED G		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
								Rate
								(cfs)
								Acc.
								(inches)
EVENT OF MARCH 24 - 25, 1973 (CONTINUED)								
				3-24			420	1010.000
							435	1030.000
							450	1060.000
							505	1105.000
							520	1175.000
							535	1235.000
							550	1270.000
							600	1280.000
							610	1270.000
							620	1240.000
							635	1175.000
							645	1120.000
							655	1070.000
							705	1020.000
							715	975.000
							725	910.000
							735	865.000
							745	805.000
							755	755.000
							805	695.000
							815	660.000
							825	620.000
							835	580.000
							845	545.000
							855	505.000
							905	475.000
							915	445.000
							925	415.000
							935	395.000
							945	365.000
							955	345.000
							1005	330.000
							1020	309.999
							1035	290.000
							1050	270.000
							1105	250.000
							1120	235.000
							1135	220.000
							1150	205.000
							1205	190.000
							1220	175.000
							1235	155.000
							1250	145.000
							1305	130.000
							1320	115.000
							1335	105.000
							1350	95.000
							1405	87.000
							1420	83.000
							1435	81.000
							1450	79.000
							1505	78.000
							1520	76.000
							1535	75.000
							1550	74.000
							1605	72.000
							1620	70.000
							1635	68.000
							1650	65.000
							1705	63.000
							1720	58.000
							1735	53.000
							1750	49.000
							1805	45.000
							1820	42.000
							1835	38.000
							1850	35.000
							1905	33.501
							1920	31.356
							1935	28.914
							1950	25.944
							2005	24.012
							2035	21.595
							2105	19.540
							2135	17.900

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002264.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED G							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24 - 25, 1973 (CONTINUED)										
							3-24	2205	16.532	1.6423
								2235	14.812	1.6441
								2305	13.519	1.6457
								2335	12.379	1.6472
								2400	11.531	1.6483
							3-25	130	9.655	1.6519
								300	8.309	1.6549
								430	7.018	1.6575
								600	6.257	1.6598
								730	5.540	1.6618
								900	4.953	1.6636
								1030	4.444	1.6652
								1200	4.108	1.6666

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0002264.



EVENT OF MARCH 24 - 25, 1973
RIESEL (WACO), TEXAS WATERSHED G

RIESEL (WACO), TEXAS WATERSHED W-1

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 27 sec. N.; Long. 96 deg. 52 min. 48 sec. W.

AREA: 174.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS						WATERSEED W-1	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	4.90	1.51	5.38	5.20	3.82	8.00	3.90	0.39	3.83	9.09	1.11	1.08	48.21	
	Q	1.863	0.430	3.014	2.754	0.854	4.701	0.296	0.001	0.002	2.426	0.098	0.136	16.576	
STA AV	P	2.27	2.66	2.58	3.96	4.16	3.41	1.82	2.15	2.61	2.93	2.93	2.61	34.07	
	Q	0.530	0.596	0.779	1.029	1.142	0.697	0.126	0.094	0.125	0.244	0.406	0.534	6.303	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	2.751	6- 3	1.880	6- 3	2.358	6- 3	2.641	6- 3	2.694	6- 3	2.710	6- 3	3.404
														6- 1	4.605
MAXIMUMS FOR PERIOD OF RECORD															
		5- 1	4.510	5- 1	2.990	5- 1	5.570	5- 1	6.910	5- 1	6.920	5- 1	7.050	4-30	9.200
		1944		1944		1944		1944		1944		1944		1944	1944

NOTES: Watershed conditions: 11% cotton; 85% pasture; 3% roads; and 1% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve; but neither tilled nor grazed. Watershed was in process of land use and treatment change to grass. Conversion is now complete. Area reported as 174 acres beginning 1969. Previously reported as 176 acres prior publications. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.6-6 (Revised). Precipitation and runoff records began July 1937; part-year amounts not included in averages. Precipitation data from Thiessen method using rain gages 75A, 89, W-2, W-2A and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973		DAILY PRECIPITATION (inches)					RIESEL (WACO), TEXAS				WATERSHED W-1		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.06E	0.0	0.95	0.0	0.0	2.28	0.0	0.0	0.0	1.97	0.0	0.0	
2	0.56	0.0	0.0	0.42	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.57	0.0	0.0	0.0	0.0	3.27	0.0	0.0	0.0	0.0	0.0	0.19	
4	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.29	1.44	0.0	0.0	0.30	0.0	0.0	0.0	
6	0.22	0.0	0.17E	0.24	0.51	0.0	2.15	0.0	0.89	0.77	0.0	0.0	
7	0.41	0.41	0.0	0.0	0.0	0.0	0.0	0.18E	0.0	0.0	0.0	0.0	
8	0.0	0.18	0.0	0.19	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.50	0.0	0.0	0.05E	0.0	0.0	0.0	0.42	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	2.54	0.0	0.0	
12	0.18S	0.0	0.0	0.0	0.0	0.30	1.13	0.0	0.0	0.19	0.0	0.0	
13	0.0	0.0	0.02E	0.0	0.03E	0.05E	0.0	0.0	0.0	0.86	0.0	0.0	
14	0.0	0.0	0.0	0.35	0.0	0.00E	0.0	0.0	0.0	0.18	0.0	0.0	
15	0.0	0.0	0.21	0.66	0.0 E	0.0	0.23	0.0	0.0	0.59	0.0	0.0	
16	0.0	0.0	0.70	0.0	0.0	0.0	0.29	0.0	0.0	0.27	0.0	0.0	
17	0.0	0.22	0.0	0.65	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	
18	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.01E	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.80	
20	0.25	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.35	0.0	
21	0.0	0.22	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.44	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.03E	0.0	0.39	0.05E	0.0	0.0	0.0	0.12E	0.0	0.29	0.09E	
24	0.02	0.0	2.53	2.06	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	
25	2.15	0.0	0.0	0.06E	2.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.92	0.02E	0.07E	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20E	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.26	0.0	0.0	
31	0.46		0.0		0.0		0.0 E	0.0		0.0		0.0	
TOTAL	4.90	1.51	5.38	5.20	3.82	8.00	3.90	0.39	3.83	9.09	1.11	1.08	
STA AV	2.27	2.66	2.58	3.96	4.16	3.41	1.82	2.15	2.61	2.93	2.93	2.61	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 75A, 89, W-2, W-2A, and W-5A. Records began July 1937; part-year amounts not included in averages. STA AV based on 36 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.013	0.230	3.207	0.023	0.056	6.809	0.003	0.003	0.0	0.923	0.028	0.015
2	0.078	0.033	0.451	0.039	0.029	0.358	0.003	0.001	0.0	0.011	0.022	0.016
3	1.898	0.025	0.083	0.149	0.019	19.703	0.003	0.0	0.0	0.001	0.020	0.025
4	0.059	0.024	0.056	0.024	0.019	0.422	0.003	0.0	0.0	0.0 T	0.024	0.014
5	0.024	0.026	0.043	0.023	0.031	6.698	0.002	0.0	0.0	0.001	0.021	0.014
6	0.025	0.027	0.072	0.036	0.232	0.356	0.633	0.0	0.0	0.027	0.022	0.014
7	1.093	0.042	0.050	0.048	0.467	0.033	0.010	0.001	0.0	0.005	0.024	0.014
8	0.096	0.962	0.040	0.069	0.026	0.021	0.007	0.002	0.0	0.001	0.024	0.015
9	0.018	0.085	0.067	0.043	0.019	0.020	0.008	0.0 T	0.0	0.001	0.019	0.015
10	0.003	0.042	1.913	0.023	0.017	0.019	0.005	0.0	0.0	0.005	0.017	0.014
11	0.016	0.037	0.083	0.024	0.017	0.029	0.007	0.0	0.0	10.340	0.017	0.015
12	0.025	0.038	0.037	0.025	0.015	0.057	1.207	0.0	0.0	0.084	0.019	0.016
13	0.100	0.036	0.040	0.025	0.010	0.038	0.093	0.0	0.0	2.219	0.020	0.015
14	0.078	0.023	0.042	0.109	0.011	0.026	0.013	0.0	0.0	0.064	0.020	0.015
15	0.042	0.024	0.075	1.197	0.012	0.016	0.023	0.0	0.0	0.248	0.016	0.011
16	0.030	0.025	2.246	0.661	0.011	0.012	0.079	0.0	0.0	1.738	0.014	0.011
17	0.029	0.054	0.075	2.229	0.010	0.011	0.018	0.0	0.0	0.048	0.016	0.014
18	0.025	0.045	0.041	0.201	0.009	0.010	0.013	0.0	0.0	0.018	0.017	0.015
19	0.017	0.038	0.038	0.062	0.008	0.010	0.011	0.0	0.0	0.013	0.039	0.488
20	0.031	0.031	0.030	0.044	0.007	0.023	0.009	0.0	0.0	0.012	0.132	0.028
21	0.078	0.071	0.029	0.062	0.008	0.016	0.007	0.0	0.0	0.012	0.017	0.022
22	0.021	0.578	0.030	0.099	0.008	0.010	0.006	0.0	0.0	0.012	0.017	0.021
23	0.012	0.427	0.033	1.277	0.007	0.009	0.004	0.0	0.0	0.012	0.036	0.024
24	0.014	0.097	13.256	13.380	0.011	0.011	0.004	0.0	0.0	0.013	0.029	0.020
25	8.656	0.055	0.064	0.268	2.754	0.011	0.004	0.0	0.0	0.012	0.019	0.020
26	0.459	0.041	0.028	0.064	2.444	0.009	0.003	0.0	0.003	0.014	0.022	0.021
27	0.068	0.034	0.028	0.032	0.017	0.007	0.004	0.0	0.009	0.013	0.015	0.020
28	0.021	0.033	0.032	0.031	0.012	0.006	0.002	0.0	0.001	0.010	0.011	0.019
29	0.020		0.033	0.034	0.010	0.008	0.001	0.0	0.0	0.011	0.014	0.018
30	0.024		0.036	0.064	0.008	0.005	0.001	0.0	0.0	1.120	0.015	0.020
31	0.502		0.029		0.007		0.002	0.0		0.950		0.016
MEAN	0.4444	0.1137	0.7190	0.6789	0.2036	1.1588	0.0705	0.0002	0.0004	0.5787	0.0242	0.0324
INCHES	1.863	0.430	3.014	2.754	0.854	4.701	0.296	0.001	0.002	2.426	0.098	0.136
STA AV	0.530	0.596	0.779	1.029	1.142	0.697	0.126	0.094	0.125	0.244	0.406	0.534

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.136791. Records began July 1937; part-year amounts not included in averages. STA AV based on 36 yr period.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-1								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 24, 1973											
RG 0000W2			RG 0000W2								
3-24	0.0	0.000	3-24	100	0.0	0.0	3-24	135	0.050	0.0	
				130	0.1400	0.07		145	0.058	0.0001	
				150	0.1800	0.13		150	0.075	0.0001	
				200	1.2600	0.34		155	0.100	0.0001	
				210	1.2000	0.54		200	0.151	0.0002	
WATERSHED CONDITIONS:											
11% cotton; 85% pasture,				214	1.2000	0.62		205	0.224	0.0003	
Bermudagrass, good cover				218	4.3500	0.91		210	0.344	0.0004	
moderately grazed; 3% gravel				222	5.4000	1.27		212	0.421	0.0005	
roads; 1% Johnsongrass and				226	2.1000	1.41		214	0.579	0.0006	
weeds, not tilled or grazed.				230	0.7500	1.46		216	0.809	0.0007	
Straight row cultivation,											
not terraced. Watershed				235	0.7200	1.52		218	1.200	0.0009	
is in process of land use				240	0.9600	1.60		219	1.690	0.0010	
change to grass. Conversion				245	1.8000	1.75		220	2.003	0.0012	
is not complete.				250	0.7200	1.81		222	2.444	0.0016	
			255	1.2000	1.91		224	3.158	0.0021		
			300	1.3200	2.02		225	4.034	0.0025		
			305	0.4800	2.06		226	4.350	0.0029		
			310	0.8400	2.13		227	5.143	0.0033		
			320	0.2400	2.17		228	6.700	0.0039		
			330	0.2400	2.21		229	9.750	0.0046		
			340	0.3000	2.26		230	14.384	0.0058		
			350	0.3600	2.32		231	20.169	0.0074		
			400	0.3000	2.37		232	25.371	0.0095		
			430	0.1800	2.46		233	30.098	0.0121		
			500	0.0600	2.49		234	39.338	0.0154		
			630	0.0	2.49		235	48.745	0.0195		
			650	0.1500	2.54		236	54.424	0.0244		
			710	0.0900	2.57		237	60.234	0.0297		
			725	0.0	2.57		238	65.958	0.0357		
			730	0.2400	2.59		239	72.288	0.0422		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005700.

1973 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS WATERSHED W-1						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
									Acc.
									(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)									
							3-24	240	78.510
								241	84.920
								242	89.484
								243	95.283
								244	99.809
								245	104.173
								246	110.546
								247	123.960
								248	133.216
								249	147.017
								250	159.085
								251	168.650
								252	172.792
								253	177.840
								254	185.587
								255	188.542
								256	189.581
								257	190.175
								258	190.770
								259	190.324
								300	189.432
								305	184.263
								310	178.275
								315	170.931
								320	160.060
								323	151.775
								326	143.788
								329	138.068
								332	129.845
								335	123.453
								338	115.448
								341	108.366
								344	101.805
								347	95.168
								350	90.159
								355	82.836
								400	76.910
								405	71.150
								410	66.763
								415	63.269
								420	59.846
								425	56.683
								430	53.214
								435	50.279
								440	47.140
								445	44.078
								450	41.852
								455	39.090
								500	36.882
								505	34.170
								510	31.995
								515	29.799
								520	27.734
								525	25.937
								530	24.185
								535	22.816
								540	21.280
								545	19.847
								550	18.640
								555	17.645
								600	16.731
								610	14.843
								620	13.538
								630	12.332
								640	11.272
								650	10.098
								700	9.406
								710	8.829
								720	8.311
								740	7.760
								800	7.134
								830	6.444
								900	5.780
								930	5.418
								1000	4.873

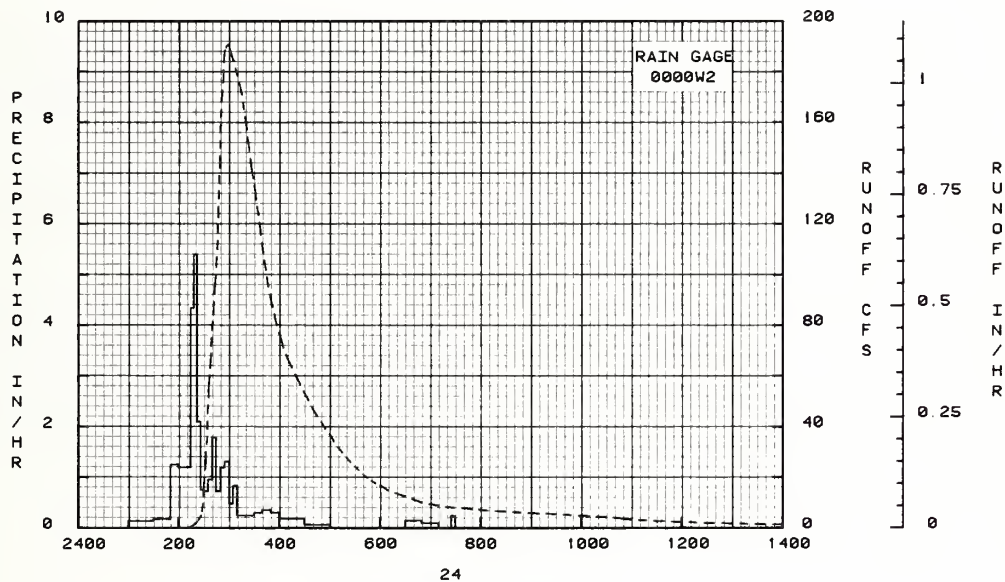
NOTES: To convert runoff in CPS to IH/HH, multiply by 0.005700.

1973 SELECTED RUNOFF EVENT

RIESEL (WACO), TEXAS WATERSHED W-1

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
EVENT OF MARCH 24, 1973 (CONTINUED)								
				3-24				
				1030				4.204
				1045				3.779
				1100				3.250
				1130				2.713
				1200				2.296
				1230				1.903
				1300				1.673
				1330				1.379
				1400				1.156
				1500				0.813
				1600				0.590
				1700				0.445
				1800				0.362
				1900				0.277
				2000				0.238
				2100				0.206
				2200				0.185
				2400				0.146

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.005700.



EVENT OF MARCH 24, 1973
RIESEL (WACO), TEXAS WATERSHED W-1

RIESEL (WACO), TEXAS WATERSHED W-2

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 19 sec. N.; Long. 96 deg. 52 min. 55 sec. W.

AREA: 130.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS WATERSHED W-2											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	4.82	1.44	5.12	5.02	3.71	7.72	4.01	0.33	3.63	8.73	1.14	1.11	46.77					
	Q	2.263	0.822	3.180	2.999	0.988	4.462	0.508	0.049	0.038	2.700	0.382	0.312	18.703					
STA AV	P	2.22	2.64	2.50	3.96	4.12	3.35	1.77	2.24	2.62	2.90	2.90	2.57	33.78					
	Q	0.641	0.735	0.894	1.087	1.170	0.659	0.134	0.089	0.107	0.248	0.438	0.662	6.864					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	2.256	6- 3	1.698	6- 3	2.097	6- 3	2.352	6- 3	2.428	6- 3	2.476	6- 3	3.066	6- 1	4.098		
MAXIMUMS FOR PERIOD OF RECORD																			
		5- 1	4.830	5- 1	2.860	5- 1	5.400	5- 1	6.910	5- 1	6.970	5- 1	7.120	4-30	9.260	4-29	10.960		
		1944		1944		1944		1944		1944		1944		1944		1944			

NOTES: Watershed conditions: 55% pasture; 20% row grain sorghum; 19% fall planted small grain, largely oats; 3% cotton; 5% gravel and paved roads; 1% other. Approximately 90% of other is Johnsongrass and weeds in conservation reserve, but neither tilled nor grazed. Cropland farmed on contour, not terraced. Modified conservation applied 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pnh. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began July 1937; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages W-2, W-4, W-5A, and W-6. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED W-2	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.03E	0.0	0.71	0.0	0.0	2.21	0.0	0.0	0.0	1.89	0.0	0.0		
2	0.59	0.0	0.0	0.48	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.55	0.0	0.0	0.0	0.0	3.05	0.0	0.0	0.0	0.0	0.0	0.19		
4	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.30	1.35	0.0	0.0	0.26	0.0	0.0	0.0		
6	0.15	0.0	0.13E	0.23	0.50	0.0	2.04	0.0	0.75	0.71	0.0	0.0		
7	0.39	0.39	0.0	0.0	0.0	0.0	0.0	0.21E	0.0	0.0	0.0	0.0		
8	0.0	0.21	0.0	0.18	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.53	0.0	0.0	0.05E	0.0	0.0	0.0	0.36	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	0.0	0.0	2.58	0.0	0.0		
12	0.15S	0.0	0.0	0.0	0.0	0.34	1.26	0.0	0.0	0.13	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.02E	0.06E	0.0	0.0	0.0	0.82	0.0	0.0		
14	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0		
15	0.0	0.0	0.23	0.74	0.0 E	0.0	0.25	0.0	0.0	0.58	0.0	0.0		
16	0.0	0.0	0.70	0.0	0.0	0.0	0.32	0.0	0.0	0.31	0.0	0.0		
17	0.0	0.17	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.01E	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.81		
20	0.32	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.42	0.0		
21	0.0	0.21	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.42	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.04E	0.0	0.47	0.08E	0.0	0.0	0.0	0.09E	0.0	0.30	0.11E		
24	0.00T	0.0	2.56	1.76	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0		
25	2.08	0.0	0.0	0.06E	2.72	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.93	0.01E	0.06E	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.18	0.0	0.0		
31	0.53		0.0		0.0		0.0 E	0.0		0.0		0.0		
TOTAL	4.82	1.44	5.12	5.02	3.71	7.72	4.01	0.33	3.63	8.73	1.14	1.11		
STA AV	2.22	2.64	2.50	3.96	4.12	3.35	1.77	2.24	2.62	2.90	2.90	2.57		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages W-2, W-4, W-5A, and W-6. Records began July 1937. STA AV based on 36 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.064	0.242	1.724	0.091	0.111	3.430	0.040	0.022	0.0 T	1.122	0.082	0.047
2	0.121	0.097	0.374	0.109	0.086	0.410	0.039	0.013	0.0 T	0.037	0.086	0.045
3	1.447	0.099	0.140	0.208	0.074	13.060	0.038	0.013	0.0	0.025	0.083	0.057
4	0.096	0.099	0.120	0.086	0.074	0.644	0.032	0.014	0.001	0.030	0.088	0.036
5	0.082	0.102	0.114	0.088	0.095	4.344	0.037	0.015	0.011	0.035	0.082	0.038
6	0.078	0.103	0.135	0.110	0.174	0.531	0.472	0.013	0.039	0.243	0.084	0.038
7	0.879	0.126	0.105	0.111	0.340	0.129	0.059	0.020	0.010	0.046	0.087	0.039
8	0.121	0.950	0.106	0.114	0.075	0.095	0.061	0.017	0.006	0.041	0.082	0.040
9	0.091	0.136	0.132	0.093	0.068	0.093	0.057	0.011	0.005	0.038	0.070	0.041
10	0.098	0.110	1.337	0.082	0.063	0.090	0.045	0.010	0.004	0.121	0.066	0.043
11	0.103	0.106	0.126	0.083	0.067	0.105	0.042	0.009	0.002	6.568	0.067	0.042
12	0.116	0.107	0.097	0.085	0.065	0.149	0.923	0.009	0.001	0.128	0.069	0.043
13	0.191	0.101	0.111	0.087	0.056	0.112	0.162	0.009	0.002	1.879	0.068	0.039
14	0.160	0.090	0.101	0.129	0.059	0.094	0.056	0.015	0.001	0.162	0.068	0.038
15	0.110	0.089	0.134	1.379	0.057	0.087	0.079	0.011	0.0	0.426	0.060	0.034
16	0.107	0.091	1.735	0.620	0.052	0.085	0.123	0.009	0.0	1.637	0.053	0.032
17	0.100	0.122	0.125	1.817	0.052	0.083	0.057	0.008	0.0	0.121	0.058	0.033
18	0.090	0.102	0.102	0.212	0.050	0.078	0.045	0.008	0.0	0.083	0.058	0.035
19	0.082	0.098	0.106	0.096	0.043	0.064	0.045	0.009	0.0	0.079	0.089	0.549
20	0.116	0.091	0.099	0.102	0.044	0.102	0.042	0.008	0.0	0.078	0.155	0.050
21	0.154	0.132	0.101	0.117	0.042	0.080	0.040	0.006	0.0	0.076	0.055	0.039
22	0.079	0.456	0.103	0.121	0.043	0.064	0.036	0.005	0.0	0.076	0.058	0.036
23	0.076	0.286	0.103	1.145	0.046	0.065	0.036	0.003	0.0	0.075	0.079	0.045
24	0.075	0.133	9.341	8.548	0.052	0.068	0.031	0.001	0.0	0.075	0.062	0.039
25	6.352	0.108	0.109	0.257	1.674	0.071	0.028	0.0 T	0.0	0.075	0.053	0.036
26	0.416	0.104	0.092	0.112	1.522	0.057	0.028	0.0 T	0.024	0.074	0.058	0.035
27	0.144	0.104	0.099	0.089	0.069	0.049	0.026	0.0 T	0.070	0.071	0.041	0.034
28	0.086	0.105	0.101	0.090	0.058	0.045	0.023	0.001	0.014	0.064	0.039	0.032
29	0.091	0.104	0.096	0.063	0.063	0.048	0.022	0.003	0.007	0.062	0.042	0.032
30	0.094	0.101	0.101	0.059	0.059	0.042	0.023	0.007	0.008	0.617	0.043	0.031
31	0.540	0.091	0.091	0.061	0.061	0.061	0.027	0.002	0.002	0.584	0.028	0.028
MEAN	0.3987	0.1603	0.5603	0.5460	0.1740	0.8124	0.0895	0.0087	0.0068	0.4757	0.0695	0.0550
INCHES	2.263	0.822	3.180	2.999	0.988	4.462	0.508	0.049	0.038	2.700	0.382	0.312
STA AV	0.641	0.735	0.894	1.087	1.170	0.659	0.134	0.089	0.107	0.248	0.438	0.662

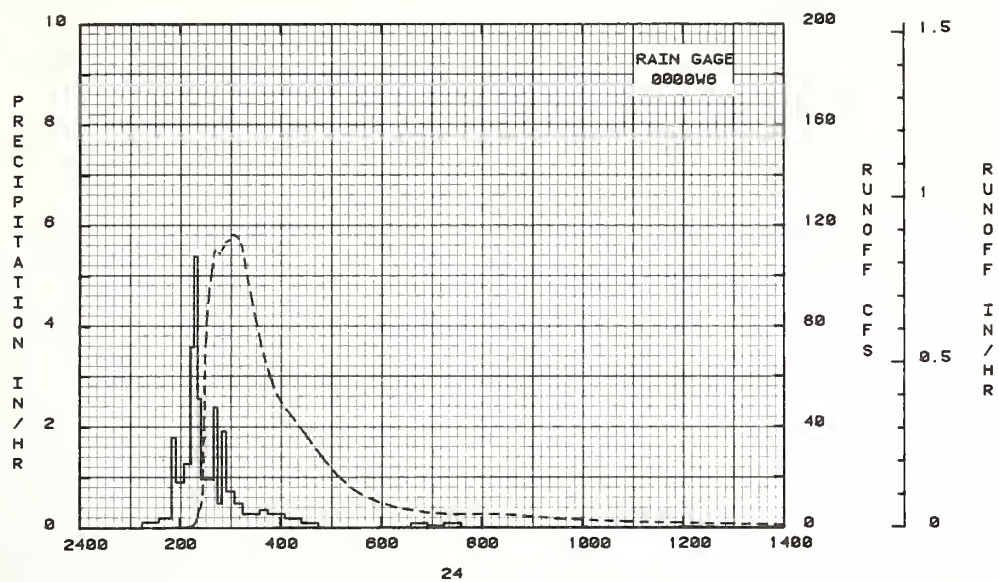
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.183090. Records began July 1937. STA AV based on 36 yr period.

1973	SELECTED RONOFF EVENT					RIESEL (WACO), TEXAS WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL				RONOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF MARCH 24, 1973													
BG 0000W6			BG 0000W6										
3-24	0.0	0.001	3-24	115	0.0	0.0	3-24	128	0.119	0.0			
				135	0.1200	0.04		143	0.127	0.0002			
				150	0.2000	0.09		148	0.144	0.0003			
				155	1.8000	0.24		153	0.175	0.0004			
				205	0.9000	0.39		155	0.191	0.0005			
WATERSHED CONDITIONS: 20% fall planted oats; 3% cotton; 16% sorghum; 55% pasture, Bermudagrass, good cover, moderately grazed; 5% gravel roads; 1% Johnsongrass, not tilled or grazed. Cropland farmed on contour, not terraced.				213	1.2750	0.56		158	0.224	0.0005			
				217	3.6000	0.80		201	0.253	0.0006			
				221	5.4000	1.16		203	0.284	0.0007			
				225	2.5500	1.33		205	0.333	0.0008			
				230	0.9600	1.41		207	0.371	0.0009			
				235	0.9600	1.49		209	0.421	0.0010			
				240	0.9600	1.57		210	0.467	0.0010			
				245	2.4000	1.77		211	0.525	0.0011			
				250	0.4800	1.81		212	0.599	0.0012			
				255	1.9200	1.97		213	0.717	0.0012			
				305	0.7200	2.09		214	0.909	0.0013			
				315	0.4800	2.17		215	1.067	0.0015			
				335	0.2700	2.26		216	1.324	0.0016			
				345	0.3600	2.32		217	1.657	0.0018			
				405	0.2700	2.41		218	2.127	0.0021			
				425	0.1800	2.47		219	2.690	0.0024			
445	0.0900	2.50		220	3.483	0.0028							
635	0.0	2.50		221	4.807	0.0033							
655	0.0900	2.53		222	7.090	0.0040							
715	0.0300	2.54		223	7.579	0.0050							
			735	0.0900	2.57		224	7.851	0.0059				
							225	8.876	0.0070				
							226	10.399	0.0082				
							227	14.043	0.0098				
							228	27.009	0.0124				

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.007629.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
				3-24				229	44.251	0.0169
								230	68.994	0.0242
								231	74.691	0.0333
								232	80.770	0.0431
								233	86.247	0.0537
								234	90.836	0.0651
								235	95.283	0.0769
								237	99.809	0.1016
								239	105.007	0.1277
								241	109.333	0.1549
								242	110.424	0.1690
								246	109.212	0.2248
								248	108.970	0.2525
								250	110.303	0.2804
								252	111.764	0.3085
								254	113.477	0.3373
								259	114.338	0.4096
								302	116.437	0.4537
								305	116.437	0.4981
								307	115.818	0.5276
								310	114.707	0.5716
								313	112.742	0.6150
								317	105.843	0.6706
								322	96.552	0.7348
								327	88.363	0.7937
								332	80.122	0.8472
								337	71.977	0.8955
								342	65.758	0.9394
								347	60.234	0.9794
								352	55.549	1.0162
								357	52.014	1.0504
								407	46.787	1.1132
								417	42.447	1.1699
								427	38.021	1.2211
								437	33.465	1.2665
								447	28.833	1.3061
								457	24.810	1.3403
								507	20.951	1.3693
								517	17.769	1.3939
								527	15.074	1.4148
								537	12.820	1.4326
								547	11.429	1.4480
								557	10.098	1.4617
								617	8.034	1.4847
								637	6.829	1.5036
								657	5.820	1.5197
								717	5.299	1.5338
								730	5.260	1.5426
								740	5.260	1.5492
								800	5.299	1.5627
								820	5.221	1.5760
								840	4.873	1.5889
								900	4.240	1.6004
								930	3.438	1.6151
								1000	2.948	1.6273
								1100	2.197	1.6469
								1200	1.708	1.6618
								1301	1.271	1.6733
								1331	1.079	1.6778
								1401	0.899	1.6816
								1431	0.773	1.6848
								1501	0.674	1.6875
								1531	0.596	1.6900
								1601	0.522	1.6921
								1631	0.469	1.6940
								1701	0.409	1.6956
								1731	0.342	1.6971
								1800	0.340	1.6983
								1900	0.286	1.7007
								2000	0.250	1.7028
								2100	0.221	1.7046
								2200	0.200	1.7062
								2300	0.185	1.7076
								2400	0.165	1.7090

NOTES: To convert runoff in CPS to IW/HR, multiply by 0.007629.



RIESEL (WACO), TEXAS WATERSHED W-6

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 24 sec. N.; Long. 96 deg. 53 min. 11 sec. W.

AREA: 42.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS WATERSHED W-6									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	4.84	1.42	5.17	4.97	3.75	7.58	4.07	0.18	3.62	8.84	1.06	1.14	46.64			
	Q	1.425	0.326	2.355	2.502	0.505	4.050	0.182	0.0	0.0	1.868	0.077	0.017	13.306			
STA AV	P	2.08	2.56	2.40	3.97	3.85	3.48	1.77	2.30	2.71	3.10	2.89	2.43	33.54			
	Q	0.352	0.386	0.580	0.753	0.745	0.563	0.081	0.045	0.080	0.168	0.305	0.436	4.496			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date Rate		1 Hour Date Vol.		2 Hours Date Vol.		Maximum Volume for Selected Time Interval 6 Hours Date Vol.		12 Hours Date Vol.		1 Day Date Vol.		2 Days Date Vol.		8 Days Date Vol.	
1973		6- 3	2.417	6- 3	1.740	6- 3	2.060	6- 3	2.243	6- 3	2.327	6- 3	2.394	6- 3	3.022	6- 1	3.937
MAXIMUMS FOR PERIOD OF RECORD																	
		6-10	3.990	4-19	2.330	4-19	2.780	5-11	3.130	5-11	3.210	3-29	4.060	11-22	5.090	4-19	9.060
		1941		1957		1957		1957		1957		1965		1940		1957	

NOTES: Watershed conditions: 33% row grain sorghum; 9% cotton; 35% fall planted small grain, largely oats; 13% pasture; 7% gravel and paved road; 3% other. All of other land use is non-tilled, non-pastured land, generally in various crop acreage reduction programs. Cropland farmed on contour, not terraces. Modified conservation program since 1956. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages W-2, W-4 and W-5A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED W-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.03E	0.0	0.72	0.0	0.0	2.26	0.0	0.0	0.0	1.98	0.0	0.0		
2	0.63	0.0	0.0	0.46	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.51	0.0	0.0	0.0	0.0	2.92	0.0	0.0	0.0	0.0	0.0	0.24		
4	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.29	1.29	0.0	0.0	0.24	0.0	0.0	0.0		
6	0.15	0.0	0.16E	0.24	0.53	0.0	2.02	0.0	0.71	0.72	0.0	0.0		
7	0.38	0.40	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.15	0.0	0.15	0.0	0.0	0.14E	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.57	0.0	0.0	0.05E	0.0	0.0	0.0	0.31	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	2.64	0.0	0.0		
12	0.15S	0.0	0.0	0.0	0.0	0.31	1.40	0.0	0.0	0.12	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.01E	0.06E	0.0	0.0	0.0	0.81	0.0	0.0		
14	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0		
15	0.0	0.0	0.17	0.76	0.0 E	0.0	0.22	0.0	0.0	0.58	0.0	0.0		
16	0.0	0.0	0.74	0.0	0.0	0.0	0.30	0.0	0.0	0.27	0.0	0.0		
17	0.0	0.16	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.01E	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.82		
20	0.32	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.41	0.0		
21	0.0	0.21	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.42	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.07E	0.0	0.40	0.07E	0.0	0.0	0.0	0.08E	0.0	0.28	0.09E		
24	0.00T	0.0	2.54	1.85	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0		
25	2.10	0.0	0.0	0.05E	2.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.98	0.01E	0.07E	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.22	0.0	0.0		
31	0.52		0.0		0.0		0.0 E	0.0		0.0		0.0		
TOTAL	4.84	1.42	5.17	4.97	3.75	7.58	4.07	0.18	3.62	8.84	1.06	1.14		
STA AV	2.08	2.56	2.40	3.97	3.85	3.48	1.77	2.30	2.71	3.10	2.89	2.43		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages W-2, W-4, and W-5A. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 31 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.002	0.017	0.477	0.008	0.009	0.945	0.001	0.0	0.0	0.291	0.010	0.0
2	0.011	0.008	0.025	0.015	0.006	0.100	0.001	0.0	0.0	0.0 T	0.008	0.0
3	0.168	0.008	0.009	0.015	0.006	4.043	0.0 T	0.0	0.0	0.0	0.007	0.0
4	0.004	0.009	0.008	0.006	0.006	0.263	0.0 T	0.0	0.0	0.0	0.008	0.0
5	0.003	0.009	0.008	0.007	0.009	1.481	0.0 T	0.0	0.0	0.0	0.009	0.0
6	0.003	0.010	0.010	0.011	0.041	0.193	0.056	0.0	0.0	0.044	0.009	0.0
7	0.106	0.014	0.007	0.010	0.028	0.031	0.002	0.0	0.0	0.001	0.008	0.0
8	0.007	0.099	0.007	0.011	0.006	0.011	0.001	0.0	0.0	0.0	0.007	0.0
9	0.007	0.015	0.013	0.006	0.005	0.007	0.001	0.0	0.0	0.0	0.006	0.0
10	0.011	0.012	0.337	0.006	0.005	0.007	0.0	0.0	0.0	0.010	0.005	0.0
11	0.005	0.012	0.007	0.007	0.004	0.010	0.001	0.0	0.0	1.672	0.005	0.0
12	0.006	0.012	0.008	0.007	0.003	0.015	0.222	0.0	0.0	0.012	0.005	0.0
13	0.015	0.011	0.008	0.008	0.002	0.010	0.005	0.0	0.0	0.492	0.005	0.0
14	0.020	0.010	0.009	0.014	0.002	0.007	0.002	0.0	0.0	0.020	0.005	0.0
15	0.014	0.012	0.011	0.400	0.002	0.005	0.004	0.0	0.0	0.089	0.005	0.0
16	0.010	0.012	0.448	0.044	0.002	0.005	0.007	0.0	0.0	0.396	0.003	0.0
17	0.007	0.017	0.010	0.461	0.002	0.004	0.004	0.0	0.0	0.023	0.001	0.0
18	0.004	0.015	0.009	0.019	0.002	0.003	0.004	0.0	0.0	0.010	0.001	0.0
19	0.006	0.014	0.010	0.011	0.001	0.004	0.004	0.0	0.0	0.009	0.002	0.030
20	0.011	0.015	0.008	0.011	0.001	0.010	0.003	0.0	0.0	0.007	0.010	0.001
21	0.009	0.021	0.009	0.010	0.001	0.007	0.002	0.0	0.0	0.006	0.001	0.0
22	0.005	0.092	0.011	0.009	0.001	0.007	0.001	0.0	0.0	0.006	0.002	0.0
23	0.005	0.059	0.011	0.306	0.001	0.006	0.0	0.0	0.0	0.006	0.003	0.0
24	0.005	0.015	2.665	2.982	0.001	0.008	0.0	0.0	0.0	0.006	0.002	0.0
25	1.929	0.013	0.006	0.024	0.612	0.008	0.0	0.0	0.0	0.006	0.002	0.0
26	0.059	0.013	0.007	0.008	0.125	0.002	0.0	0.0	0.0	0.006	0.002	0.0
27	0.014	0.014	0.009	0.006	0.003	0.001	0.0	0.0	0.0	0.006	0.001	0.0
28	0.004	0.015	0.009	0.007	0.002	0.002	0.0	0.0	0.0	0.006	0.0 T	0.0
29	0.006	0.011	0.008	0.008	0.002	0.001	0.0	0.0	0.0	0.006	0.0 T	0.0
30	0.007	0.011	0.008	0.002	0.001	0.0	0.0	0.0	0.0	0.143	0.0	0.0
31	0.069	0.006	0.006	0.003	0.003	0.0	0.0	0.0	0.0	0.047	0.0	0.0
MEAN	0.0817	0.0207	0.1350	0.1482	0.0289	0.2399	0.0104	0.0	0.0	0.1071	0.0046	0.0010
INCRS	1.425	0.326	2.355	2.502	0.505	4.050	0.182	0.0	0.0	1.868	0.077	0.017
STA AV	0.352	0.386	0.580	0.753	0.745	0.563	0.081	0.045	0.080	0.168	0.305	0.436

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.562687. Records began May 1939; station not in operation July 1943 to Jan. 1, 1946; part-year amounts not included in averages. STA AV based on 31 yr period.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-6									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 24, 1973												
RG 0000W4			RG 0000W4									
3-24	0.0	0.001	3-24	115	0.0	0.0	3-24	147	0.023	0.0		
				135	0.1200	0.04		150	0.031	0.0000		
				150	0.2000	0.09		153	0.042	0.0001		
				155	1.6800	0.23		155	0.046	0.0001		
				205	0.9000	0.38		157	0.058	0.0001		
WATERSHED CONDITIONS:												
33% row grain sorghum; 35%												
fall planted oats; 9% cotton,												
13% pasture, Bermudagrass,												
good cover, moderately												
grazed; 7% gravel roads; 3%												
Johnsongrass and weeds, not												
tilled or grazed. Cropland												
farmed on contour, not												
terraced.												
				213	1.2750	0.55		200	0.087	0.0002		
				217	3.4500	0.78		203	0.118	0.0003		
				221	5.4000	1.14		205	0.154	0.0005		
				225	2.5500	1.31		207	0.184	0.0006		
				230	0.9600	1.39		209	0.227	0.0007		
				235	0.9600	1.47		211	0.284	0.0009		
				240	0.9600	1.55		212	0.368	0.0011		
				245	2.2800	1.74		213	0.462	0.0012		
				250	0.6000	1.79		214	0.595	0.0014		
				255	1.8000	1.94		215	0.792	0.0017		
				305	0.7200	2.06		216	0.985	0.0021		
				315	0.4800	2.14		217	1.575	0.0026		
				335	0.2400	2.22		218	2.243	0.0033		
				345	0.4200	2.29		219	3.012	0.0043		
				405	0.2400	2.37		220	3.762	0.0057		
				425	0.1800	2.43		221	4.593	0.0073		
				445	0.0900	2.46		222	5.914	0.0093		
				635	0.0	2.46		223	7.655	0.0120		
				655	0.0900	2.49		224	10.934	0.0156		
				715	0.0300	2.50		225	16.257	0.0209		
				735	0.0900	2.53		226	21.237	0.0282		
								227	24.098	0.0372		
								228	26.209	0.0470		
								229	28.181	0.0576		
								230	30.792	0.0692		

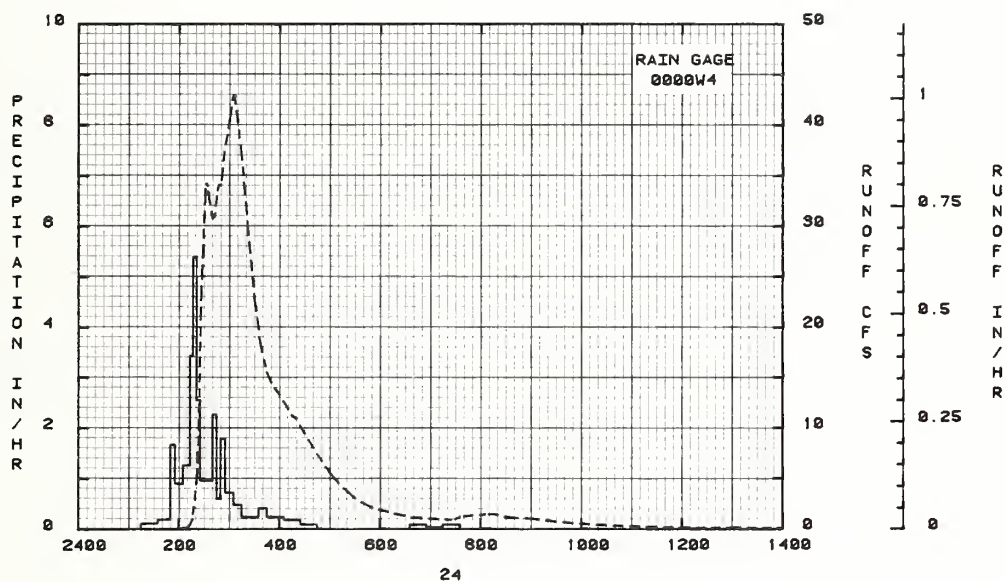
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.023445.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-6							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
							3-24	231	32.709	0.0816
								232	33.748	0.0945
								233	34.272	0.1077
								234	34.010	0.1212
								235	33.443	0.1343
								237	32.193	0.1599
								239	31.172	0.1847
								240	30.792	0.1968
								241	30.919	0.2088
								243	31.341	0.2332
								245	33.010	0.2584
								246	33.661	0.2714
								247	33.922	0.2846
								248	34.141	0.2978
								250	34.141	0.3246
								251	34.667	0.3380
								252	35.817	0.3517
								254	37.433	0.3804
								256	38.342	0.4099
								300	40.369	0.4716
								302	41.819	0.5036
								304	42.813	0.5368
								305	43.051	0.5535
								306	42.908	0.5702
								310	40.276	0.6352
								315	36.577	0.7105
								318	33.879	0.7516
								320	31.980	0.7774
								322	29.912	0.8015
								324	28.099	0.8243
								326	26.368	0.8455
								328	24.794	0.8655
								330	22.953	0.8842
								332	21.606	0.9016
								335	19.785	0.9259
								337	18.406	0.9407
								339	17.508	0.9548
								341	16.794	0.9682
								343	16.190	0.9811
								345	15.530	0.9935
								350	14.526	1.0229
								355	13.859	1.0506
								400	13.298	1.0771
								405	12.592	1.1024
								410	11.931	1.1263
								415	11.282	1.1491
								420	10.906	1.1707
								425	10.194	1.1913
								430	9.446	1.2105
								440	8.064	1.2447
								450	6.764	1.2737
								500	5.550	1.2977
								510	4.551	1.3175
								520	3.762	1.3337
								530	3.084	1.3471
								540	2.557	1.3581
								550	2.163	1.3673
								600	1.883	1.3752
								620	1.449	1.3883
								640	1.095	1.3982
								700	0.997	1.4064
								720	0.926	1.4139
								725	0.926	1.4157
								730	0.997	1.4176
								735	1.248	1.4198
								740	1.300	1.4223
								750	1.354	1.4274
								800	1.408	1.4328
								805	1.477	1.4357
								810	1.518	1.4386
								820	1.367	1.4442
								835	1.108	1.4515
								900	1.020	1.4619
								920	0.807	1.4690
								940	0.644	1.4747

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.023445.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-6							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
				3-24				1000	0.493	1.4791
								1020	0.386	1.4826
								1040	0.288	1.4852
								1100	0.241	1.4873
								1130	0.176	1.4897
								1200	0.127	1.4915
								1300	0.087	1.4940
								1400	0.049	1.4956
								1500	0.023	1.4964
								1600	0.015	1.4969
								1800	0.010	1.4975
								2400	0.008	1.4987

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.023445.



EVENT OF MARCH 24, 1973
RIESEL (WACO), TEXAS WATERSHED W-6

RIESEL (WACO), TEXAS WATERSHED W-10

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 12 sec. N.; Long. 96 deg. 53 min. 00 sec. W.

AREA: 19.70 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										RIESEL (WACO), TEXAS WATERSHED W-10									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	4.80	1.43	4.99	5.05	3.68	7.85	4.01	0.46	3.62	8.58	1.22	1.09	46.78					
	Q	2.625	0.570	3.114	2.690	1.107	4.607	0.578	0.0	0.0	3.273	0.062	0.278	18.905					
STA AV	P	2.11	2.58	2.30	3.96	3.75	3.47	1.72	2.40	2.70	3.11	2.86	2.41	33.35					
	Q	0.541	0.503	0.617	0.964	0.852	0.679	0.114	0.126	0.170	0.392	0.498	0.587	6.045					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	1.745	6- 3	1.412	6- 3	1.933	6- 3	2.398	6- 3	2.505	6- 3	2.536	6- 3	3.077	5-30	4.602		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-10	5.010	4-19	2.310	4-19	2.550	5-11	3.000	11-22	3.330	11-22	3.530	4-24	5.160	5-19	8.290		
		1941		1957		1957		1957		1940		1940		1966		1957			

NOTES: Watershed conditions: 100% Coastal Bermuda grass for pasture. Good cover, moderately grazed, terraced. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 42.7-5 (Revised). Precipitation and runoff records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. Precipitation data obtained from rain gage W-6. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED W-10														
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
	1	0.01E	0.0	0.66	0.0	0.0	2.16	0.0	0.0	0.0	1.79	0.0	0.0															
	2	0.57	0.0	0.0	0.48	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	3	0.59	0.0	0.0	0.0	0.0	3.12	0.0	0.0	0.0	0.0	0.0	0.14															
	4	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0															
	5	0.0	0.0	0.0	0.0	0.33	1.41	0.0	0.0	0.27	0.0	0.0	0.0															
	6	0.14	0.0	0.10E	0.23	0.45	0.0	2.08	0.0	0.76	0.70	0.0	0.0															
	7	0.40	0.35	0.0	0.0	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0															
	8	0.0	0.30	0.0	0.20	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0															
	9	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	10	0.0	0.0	0.50	0.0	0.0	0.05E	0.0	0.0	0.0	0.41	0.0	0.0															
	11	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	2.53	0.0	0.0															
	12	0.12S	0.0	0.0	0.0	0.0	0.38	1.18	0.0	0.0	0.10	0.0	0.0															
	13	0.0	0.0	0.0	0.0	0.03E	0.07E	0.0	0.0	0.0	0.82	0.0	0.0															
	14	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0															
	15	0.0	0.0	0.29	0.74	0.0	0.0	0.27	0.0	0.0	0.58	0.0	0.0															
	16	0.0	0.0	0.62	0.0	0.0	0.0	0.34	0.0	0.0	0.37	0.0	0.0															
	17	0.0	0.15	0.0	0.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	18	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	19	0.0	0.0	0.01E	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.82															
	20	0.34	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.43	0.0															
	21	0.0	0.21	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	22	0.0	0.42	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	23	0.0	0.0	0.0	0.57	0.08E	0.0	0.0	0.0	0.08E	0.0	0.32	0.13E															
	24	0.0	0.0	2.57	1.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	25	2.06	0.0	0.0	0.07E	2.70	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.90	0.01E	0.06E	0.0															
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0															
	28	0.0	0.0	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0															
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	0.0															
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.12	0.0	0.0															
	31	0.55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
TOTAL		4.80	1.43	4.99	5.05	3.68	7.85	4.01	0.46	3.62	8.58	1.22	1.09															
STA AV		2.11	2.58	2.30	3.96	3.75	3.47	1.72	2.40	2.70	3.11	2.86	2.41															

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-6. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 31 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.044	0.256	0.0	0.0	0.799	0.0	0.0	0.0	0.257	0.0 T	0.0
2	0.011	0.002	0.084	0.003	0.0	0.076	0.0	0.0	0.0	0.0	0.0	0.0
3	0.403	0.0	0.006	0.046	0.0	2.017	0.0	0.0	0.0	0.0	0.0	0.0
4	0.008	0.0	0.001	0.001	0.0	0.086	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0 T	0.0	0.0	0.0	0.0	0.773	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0 T	0.0	0.0 T	0.0	0.027	0.062	0.105	0.0	0.0	0.0	0.0	0.0
7	0.174	0.001	0.0	0.0	0.088	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0
8	0.014	0.249	0.0	0.004	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0 T	0.013	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.002	0.270	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	1.454	0.0	0.0
12	0.0	0.0	0.0 T	0.0	0.0	0.0	0.322	0.0	0.0	0.005	0.0	0.0
13	0.007	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.340	0.0	0.0
14	0.003	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0
15	0.0 T	0.0	0.002	0.248	0.0	0.0	0.0 T	0.0	0.0	0.018	0.0	0.0
16	0.0	0.0	0.363	0.160	0.0	0.0	0.012	0.0	0.0	0.283	0.0	0.0
17	0.0	0.0 T	0.009	0.314	0.0	0.0	0.001	0.0	0.0	0.002	0.0	0.0
18	0.0	0.0	0.0	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.227
20	0.004	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.048	0.004
21	0.012	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
22	0.0 T	0.117	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.036	0.0	0.203	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
24	0.0	0.006	1.569	1.160	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
25	1.352	0.0 T	0.007	0.036	0.345	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.081	0.0	0.0	0.003	0.454	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.004	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.186	0.0	0.0
31	0.098	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.161	0.0	0.0
MEAN	0.0701	0.0169	0.0831	0.0742	0.0295	0.1271	0.0154	0.0	0.0	0.0874	0.0017	0.0074
INCRS	2.625	0.570	3.114	2.690	1.107	4.607	0.578	0.0	0.0	3.273	0.062	0.278
STA AV	0.541	0.503	0.617	0.964	0.852	0.679	0.114	0.126	0.170	0.392	0.498	0.587

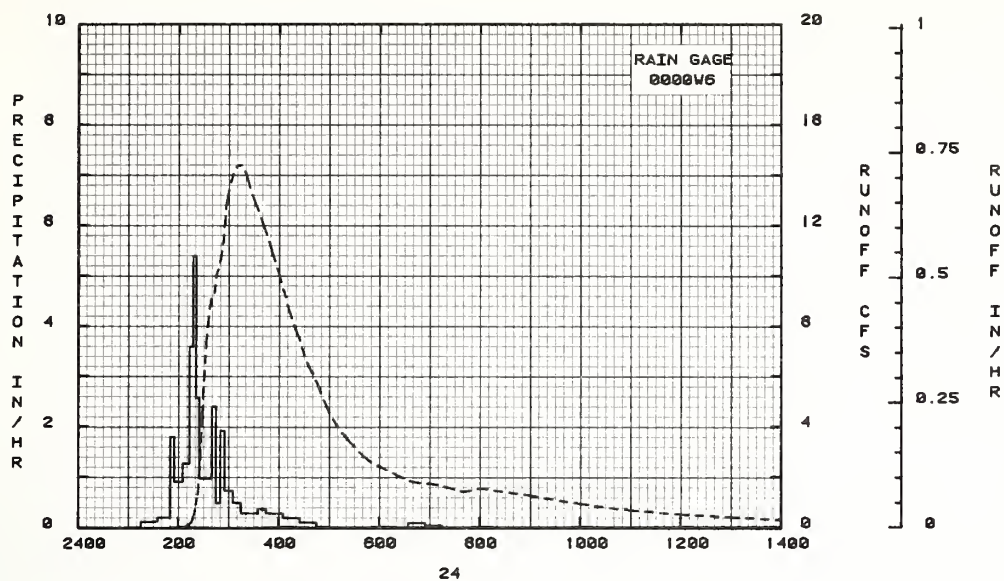
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.208206. Records began Aug. 1938; station not in operation July 1943 to May 3, 1946; part-year amounts not included in averages. STA AV based on 31 yr period.

1973 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-10									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF MARCH 24, 1973									
3-24	RG 0000W6	0.0	3-24	115	0.0	0.0	3-24	151	0.0
				135	0.1200	0.04		155	0.0
				150	0.2000	0.09		200	0.001
				155	1.8000	0.24		203	0.005
				205	0.9000	0.39		205	0.010
WATERSHED CONDITIONS: 100% Coastal Bermudagrass pasture, 4 inches high, good cover, dormant.				213	1.2750	0.56		207	0.019
				217	3.6000	0.80		209	0.036
				221	5.4000	1.16		210	0.069
				225	2.5500	1.33		211	0.102
				230	0.9600	1.41		213	0.141
				235	0.9600	1.49		215	0.191
				240	0.9600	1.57		216	0.244
				245	2.4000	1.77		217	0.334
				250	0.4800	1.81		218	0.447
				255	1.9200	1.97		219	0.554
				305	0.7200	2.09		220	0.729
				315	0.4800	2.17		221	0.905
				335	0.2700	2.26		222	1.172
				345	0.3600	2.32		223	1.327
				405	0.2700	2.41		224	1.719
				425	0.1800	2.47		225	2.115
				445	0.0900	2.50		226	2.781
				635	0.0	2.50		227	3.474
				655	0.0900	2.53		228	4.302
				715	0.0300	2.54		229	4.826
								230	5.550
								231	6.240
								232	6.837
								233	7.379
								235	8.090

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.050342.

1973	SELECTED RUNOFF EVENT						RIESEL (WACO), TEXAS WATERSHED W-10				
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 24, 1973 (CONTINUED)											
							3-24	237	8.745	0.0674	
								239	9.093	0.0825	
								243	9.337	0.1134	
								245	10.026	0.1297	
								247	10.250	0.1466	
								250	10.676	0.1730	
								253	11.341	0.2007	
								255	12.050	0.2203	
								257	12.867	0.2413	
								300	13.422	0.2744	
								305	14.049	0.3320	
								310	14.398	0.3916	
								315	14.398	0.4521	
								320	14.049	0.5117	
								325	13.484	0.5694	
								330	13.020	0.6251	
								335	12.562	0.6787	
								340	12.080	0.7303	
								345	11.634	0.7802	
								350	11.079	0.8278	
								355	10.562	0.8731	
								400	10.026	0.9164	
								405	9.418	0.9572	
								410	8.825	0.9954	
								415	8.297	1.0314	
								420	7.833	1.0652	
								425	7.404	1.0971	
								430	6.813	1.1270	
								435	6.405	1.1547	
								440	6.076	1.1808	
								450	5.304	1.2286	
								500	4.530	1.2699	
								510	3.959	1.3054	
								520	3.550	1.3370	
								530	3.175	1.3652	
								540	2.834	1.3904	
								550	2.574	1.4131	
								600	2.407	1.4340	
								620	2.068	1.4715	
								640	1.778	1.5038	
								700	1.719	1.5331	
								720	1.589	1.5609	
								740	1.408	1.5860	
								800	1.540	1.6108	
								900	1.248	1.6810	
								1000	0.921	1.7356	
								1100	0.669	1.7756	
								1200	0.509	1.8052	
								1300	0.395	1.8280	
								1400	0.277	1.8449	
								1500	0.198	1.8568	
								1600	0.145	1.8655	
								1700	0.114	1.8720	
								1800	0.094	1.8772	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.050342.



EVENT OF MARCH 24, 1973
RIESEL (WACO), TEXAS WATERSHED W-10

RIESEL (WACO), TEXAS WATERSHED Y

LOCATION: Falls Co., Texas; 17 mi. SE Waco; Brazos Basin. Lat. 31 deg. 28 min. 36 sec. N.; Long. 96 deg. 52 min. 36 sec. W.

AREA: 309.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS WATERSHED Y									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	4.79	1.48	5.36	5.25	3.85	7.73	3.10	0.43	3.61	8.88	1.11	1.18	46.74			
	Q	1.745	0.489	2.457	2.235	0.701	4.168	0.076	0.0	0.0	1.847	0.085	0.071	13.874			
STA AV	P	2.19	2.56	2.35	3.87	3.79	3.55	1.81	2.12	2.62	2.98	2.75	2.42	33.02			
	Q	0.534	0.528	0.614	0.788	0.689	0.638	0.142	0.049	0.090	0.160	0.338	0.422	4.993			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	2.279	6- 3	1.817	6- 3	2.230	6- 3	2.490	6- 3	2.552	6- 3	2.576	6- 1	3.033	6- 1	4.069
MAXIMUMS FOR PERIOD OF RECORD																	
		4-19	2.540	4-19	2.150	4-19	2.740	4-19	3.480	4-19	3.660	3-29	3.980	11-22	4.770	4-19	9.360
		1957		1957		1957		1957		1957		1965		1940		1957	

NOTES: Watershed conditions: 58% pasture; 8% cotton; 22% fall planted small grain, largely oats; 11% row grain sorghum; 1% gravel and paved roads. Cropland terraced, contour cultivation. No change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69, 69B, 70, 75A, 84A, 89, and W-2A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED Y	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	1	0.06E	0.0	1.06	0.0	0.0	2.40	0.0	0.0	0.0	1.57	0.0	0.0		
	2	0.57	0.0	0.0	0.42	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
	3	0.60	0.0	0.0	0.0	0.0	3.19	0.0	0.0	0.0	0.0	0.0	0.0		0.27
	4	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0		
	5	0.0	0.0	0.0	0.0	0.29	1.22	0.0	0.0	0.26	0.0	0.0	0.0		
	6	0.21	0.0	0.23	0.24	0.54	0.0	1.90	0.0	0.77	0.81	0.0	0.0		0.0
	7	0.37	0.38	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0		0.0
	8	0.0	0.17	0.0	0.19	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0		0.0
	9	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	10	0.0	0.0	0.49	0.0	0.0	0.05E	0.0	0.0	0.0	0.34	0.0	0.0		0.0
	11	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	2.57	0.0	0.0		0.0
	12	0.14S	0.0	0.0	0.0	0.0	0.23	0.67	0.0	0.0	0.16	0.0	0.0		0.0
	13	0.0	0.0	0.01E	0.0	0.02E	0.04E	0.0	0.0	0.0	0.84	0.0	0.0		0.0
	14	0.0	0.0	0.0	0.35	0.0	0.01E	0.0	0.0	0.0	0.15	0.0	0.0		0.0
	15	0.0	0.0	0.21	0.71	0.0 E	0.0	0.19	0.0	0.0	0.59	0.0	0.0		0.0
	16	0.0	0.0	0.60	0.0	0.0	0.0	0.25	0.0	0.0	0.26	0.0	0.0		0.0
	17	0.0	0.22	0.0	0.62	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0		0.0
	18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	19	0.0	0.0	0.01E	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.82		
	20	0.22	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.33	0.0		0.0
	21	0.0	0.22	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	22	0.0	0.43	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	23	0.0	0.05E	0.0	0.45	0.02E	0.0	0.0	0.0	0.08E	0.0	0.33	0.10E		
	24	0.02	0.0	2.44	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0		
	25	2.09	0.0	0.0	0.05E	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.90	0.05E	0.07E	0.0	0.0		
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0		0.0
	28	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0		0.0
	29	0.0		0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0		0.0
	30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	1.47	0.0	0.0	0.0		0.0
	31	0.46		0.0		0.0		0.02E	0.0		0.0		0.0		0.0
TOTAL		4.79	1.48	5.36	5.25	3.85	7.73	3.10	0.43	3.61	8.88	1.11	1.18		
STA AV		2.19	2.56	2.35	3.87	3.79	3.55	1.81	2.12	2.62	2.98	2.75	2.42		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69, 69B, 70, 75A, 84A, 89, and W-2A. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 32 yr period. Estimate codes may indicate that non-significant event totals are included.

1973	MEAN DAILY DISCHARGE (cfs)					RIESEL (WACO), TEXAS					WATERSHED Y		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.018	0.446	5.803	0.043	0.099	10.429	0.002	0.0	0.0	0.211	0.083	0.008	
2	0.236	0.108	0.764	0.055	0.059	0.725	0.001	0.0	0.0	0.014	0.053	0.009	
3	2.863	0.085	0.211	0.329	0.029	32.692	0.0 T	0.0	0.0	0.005	0.044	0.030	
4	0.126	0.085	0.179	0.049	0.021	0.913	0.0	0.0	0.0	0.006	0.055	0.013	
5	0.074	0.084	0.121	0.036	0.035	7.593	0.0	0.0	0.0	0.006	0.046	0.006	
6	0.076	0.085	0.470	0.066	0.469	0.800	0.753	0.0	0.0	0.176	0.044	0.005	
7	2.089	0.115	0.165	0.118	0.809	0.102	0.014	0.0	0.0	0.025	0.056	0.005	
8	0.236	1.639	0.108	0.139	0.031	0.064	0.007	0.0	0.0	0.010	0.048	0.006	
9	0.069	0.189	0.245	0.084	0.015	0.064	0.007	0.0	0.0	0.007	0.027	0.006	
10	0.054	0.105	3.824	0.034	0.010	0.062	0.005	0.0	0.0	0.022	0.020	0.005	
11	0.082	0.097	0.162	0.028	0.007	0.087	0.005	0.0	0.0	10.321	0.018	0.005	
12	0.101	0.102	0.077	0.029	0.006	0.154	0.050	0.0	0.0	0.338	0.021	0.007	
13	0.308	0.099	0.099	0.030	0.002	0.116	0.069	0.0	0.0	3.929	0.021	0.006	
14	0.363	0.056	0.099	0.150	0.001	0.080	0.005	0.0	0.0	0.337	0.021	0.005	
15	0.195	0.052	0.236	1.581	0.003	0.041	0.016	0.0	0.0	0.853	0.016	0.005	
16	0.111	0.051	2.477	0.846	0.001	0.027	0.031	0.0	0.0	3.358	0.009	0.004	
17	0.114	0.144	0.133	2.665	0.0	0.018	0.011	0.0	0.0	0.217	0.011	0.005	
18	0.106	0.114	0.073	0.313	0.0	0.012	0.004	0.0	0.0	0.083	0.014	0.006	
19	0.062	0.079	0.067	0.105	0.0	0.010	0.002	0.0	0.0	0.065	0.021	0.667	
20	0.072	0.062	0.053	0.062	0.0	0.021	0.001	0.0	0.0	0.055	0.167	0.025	
21	0.207	0.208	0.045	0.100	0.0	0.031	0.0 T	0.0	0.0	0.045	0.024	0.013	
22	0.057	1.089	0.051	0.185	0.0	0.014	0.0	0.0	0.0	0.040	0.015	0.010	
23	0.040	0.692	0.057	1.991	0.0	0.010	0.0	0.0	0.0	0.037	0.083	0.014	
24	0.036	0.203	15.739	19.057	0.0	0.009	0.0	0.0	0.0	0.034	0.078	0.013	
25	12.407	0.113	0.148	0.519	4.483	0.010	0.0	0.0	0.0	0.033	0.032	0.008	
26	0.938	0.092	0.083	0.143	3.011	0.008	0.0	0.0	0.0	0.034	0.038	0.007	
27	0.270	0.076	0.090	0.068	0.015	0.005	0.0	0.0	0.0	0.039	0.019	0.006	
28	0.104	0.078	0.092	0.058	0.001	0.004	0.0	0.0	0.0	0.026	0.006	0.007	
29	0.087		0.084	0.059	0.0	0.004	0.0	0.0	0.0	0.020	0.006	0.007	
30	0.103		0.075	0.073	0.0	0.003	0.0	0.0	0.0	2.167	0.007	0.006	
31	1.055		0.069		0.0		0.0	0.0		1.465		0.004	
MEAN	0.7309	0.2267	1.0289	0.9672	0.2938	1.8035	0.0317	0.0	0.0	0.7734	0.0368	0.0299	
INCHES	1.745	0.489	2.457	2.235	0.701	4.168	0.076	0.0	0.0	1.847	0.085	0.071	
STA AV	0.534	0.528	0.614	0.788	0.689	0.638	0.142	0.049	0.090	0.160	0.338	0.422	

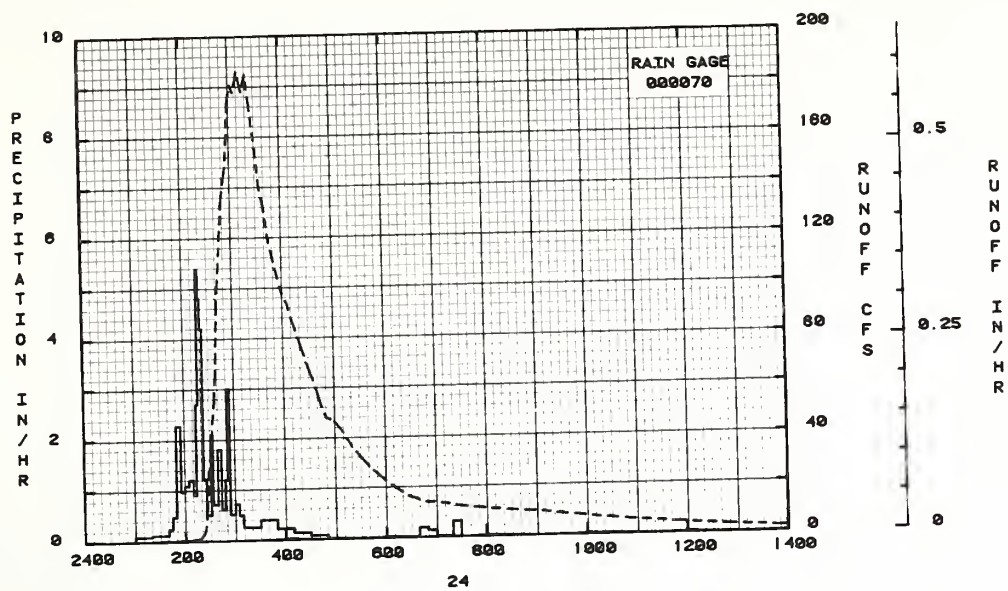
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.077028. Records began May 1937; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 42 yr period.

1973	SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS					WATERSHED Y	
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 24, 1973												
RG 000070			RG 000070									
3-24	0.0	0.000	3-24	100	0.0	0.0	3-24	130	0.083	0.0		
				120	0.0900	0.03		150	0.100	0.0001		
				140	0.1200	0.07		152	0.121	0.0001		
				145	0.2400	0.09		154	0.148	0.0001		
				150	0.4800	0.13		156	0.166	0.0001		
WATERSHED CONDITIONS:												
58% pasture, Bermudagrass				155	2.2800	0.32		158	0.202	0.0002		
and native grass, good				200	0.9600	0.40		200	0.256	0.0002		
cover, moderately grazed;				205	1.0800	0.49		203	0.303	0.0002		
8% cotton; 22% fall				210	1.2000	0.59		206	0.395	0.0003		
planted oats; 11% row grain				214	0.9000	0.65		209	0.474	0.0003		
sorghum; 1% gravel roads.				216	2.7000	0.74		212	0.606	0.0004		
Cropland terraced, culti-				218	5.4000	0.92		215	0.755	0.0005		
vated on contour.				220	4.8000	1.08		217	0.914	0.0006		
				222	4.2000	1.22		218	1.089	0.0007		
				226	1.2000	1.30		219	1.354	0.0008		
				232	0.5000	1.35		220	1.816	0.0008		
				234	2.1000	1.42		221	2.151	0.0009		
				240	0.7000	1.49		222	2.621	0.0011		
				244	1.8000	1.61		223	3.178	0.0012		
				248	0.6000	1.65		224	3.822	0.0014		
				252	1.2000	1.73		225	5.758	0.0017		
				254	3.0000	1.83		226	10.268	0.0021		
				300	0.5000	1.88		227	15.696	0.0028		
				305	0.7200	1.94		228	21.952	0.0038		
				310	0.4800	1.98		229	27.216	0.0051		
				330	0.2400	2.06		230	28.747	0.0066		
				350	0.3900	2.19		231	32.208	0.0083		
				410	0.2100	2.26		232	36.350	0.0101		
				430	0.1200	2.30		233	43.455	0.0122		
				450	0.0600	2.32		234	46.713	0.0147		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day
								Rate (cfs)
								Acc. (inches)
EVENT OF MARCH 24, 1973 (CONTINUED)								
3-24	640	0.0	2.32	3-24	235	49.951	0.0172	
	650	0.1800	2.35		236	54.903	0.0200	
	700	0.1200	2.37		237	58.875	0.0231	
	720	0.0	2.37		238	64.454	0.0264	
	730	0.3000	2.42		239	74.254	0.0301	
					240	83.957	0.0343	
					241	95.342	0.0391	
					242	100.296	0.0444	
					244	110.244	0.0556	
					246	119.782	0.0679	
					248	133.380	0.0814	
					250	138.619	0.0960	
					252	143.295	0.1110	
					254	148.256	0.1267	
					256	158.150	0.1430	
					258	172.621	0.1608	
					300	178.246	0.1796	
					302	180.899	0.1987	
					305	177.637	0.2275	
					310	186.077	0.2761	
					315	177.840	0.3249	
					320	184.825	0.3733	
					325	170.445	0.4208	
					330	154.804	0.4644	
					335	138.619	0.5036	
					340	130.072	0.5395	
					345	117.754	0.5727	
					350	110.244	0.6032	
					355	103.258	0.6317	
					400	97.238	0.6585	
					405	93.783	0.6841	
					410	87.732	0.7083	
					415	82.678	0.7311	
					420	77.571	0.7525	
					425	72.699	0.7726	
					430	67.446	0.7914	
					435	62.707	0.8088	
					440	57.564	0.8249	
					445	52.132	0.8396	
					450	47.743	0.8529	
					455	46.992	0.8656	
					500	46.342	0.8781	
					510	41.976	0.9017	
					520	36.427	0.9227	
					530	32.137	0.9410	
					540	28.552	0.9572	
					550	25.389	0.9717	
					600	22.436	0.9845	
					610	20.041	0.9958	
					620	17.657	1.0059	
					630	15.948	1.0149	
					640	14.718	1.0231	
					650	13.748	1.0307	
					658	13.861	1.0366	
					728	12.051	1.0574	
					758	10.860	1.0758	
					828	10.055	1.0926	
					858	9.438	1.1082	
					928	8.525	1.1226	
					958	7.291	1.1353	
					1028	6.367	1.1463	
					1058	5.385	1.1557	
					1158	4.006	1.1708	
					1258	2.811	1.1817	
					1358	1.833	1.1891	
					1458	1.429	1.1944	
					1558	1.095	1.1984	
					1658	0.801	1.2015	
					1758	0.643	1.2038	
					1858	0.546	1.2057	
					1958	0.464	1.2073	
					2058	0.409	1.2087	
					2158	0.359	1.2099	
					2258	0.316	1.2110	
					2400	0.278	1.2120	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.003210.



EVENT OF MARCH 24, 1973
RIESEL (WACO), TEXAS WATERSHED Y

RIESEL (WACO), TEXAS WATERSHED Y-2

LOCATION: Falls Co., Texas; 18 mi. SE Waco; Brazos River Basin. Lat. 31 deg. 28 min. 30 sec. N.; Long. 96 deg. 52 min. 46 sec. W.

AREA: 132.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							RIESEL (WACO), TEXAS WATERSHED Y-2												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	4.77	1.48	5.41	5.21	3.88	7.61	3.13	0.43	3.70	8.93	1.10	1.25	46.90					
	Q	1.625	0.283	2.512	2.201	0.830	4.656	0.093	0.0	0.0	1.764	0.018	0.025	14.007					
STA AV	P	2.20	2.61	2.58	3.94	4.25	3.47	1.85	2.13	2.72	2.94	2.91	2.55	34.14					
	Q	0.470	0.557	0.749	0.905	1.032	0.652	0.142	0.048	0.083	0.175	0.355	0.515	5.681					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	2.364	6- 3	1.892	6- 3	2.369	6- 3	2.614	6- 3	2.652	6- 3	2.669	6- 1	3.398	6- 1	4.626		
MAXIMUMS FOR PERIOD OF RECORD																			
		5- 1	4.070	5- 1	3.110	5- 1	5.470	5- 1	7.080	5- 1	7.280	5- 1	7.460	4-30	9.640	4-29	10.600		
		1944		1944		1944		1944		1944		1944		1944		1944			

NOTES: Watershed conditions: 17% cotton; 28% fall planted small grain, largely oats; 19% row grain sorghum; 35% pasture; 1% gravel and paved roads. Cropland terraced, contour cultivation, conservation treatment since 1942. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1, 1939. Precipitation data from Thiessen weighted method using rain gages 69, 69B, 70, 75A, and 84A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973		DAILY PRECIPITATION (inches)					RIESEL (WACO), TEXAS				WATERSHED Y-2		
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.06E	0.0	1.08	0.0	0.0	2.39	0.0	0.0	0.0	1.53	0.0	0.0
	2	0.57	0.0	0.0	0.44	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	3	0.59	0.0	0.0	0.0	0.0	3.14	0.0	0.0	0.0	0.0	0.0	0.30
	4	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0
	5	0.0	0.0	0.0	0.0	0.31	1.20	0.0	0.0	0.27	0.0	0.0	0.0
	6	0.21	0.0	0.26	0.24	0.53	0.0	1.95	0.0	0.76	0.82	0.0	0.0
	7	0.37	0.40	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0
	8	0.0	0.17	0.0	0.19	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0
	9	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	10	0.0	0.0	0.47	0.0	0.0	0.05E	0.0	0.0	0.0	0.32	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	2.59	0.0	0.0
	12	0.14S	0.0	0.0	0.0	0.0	0.22	0.71	0.0	0.0	0.14	0.0	0.0
	13	0.0	0.0	0.02E	0.0	0.01E	0.03E	0.0	0.0	0.0	0.88	0.0	0.0
	14	0.0	0.0	0.0	0.34	0.0	0.01E	0.0	0.0	0.0	0.15	0.0	0.0
	15	0.0	0.0	0.21	0.73	0.0E	0.0	0.18	0.0	0.0	0.60	0.0	0.0
	16	0.0	0.0	0.60	0.0	0.0	0.0	0.22	0.0	0.0	0.25	0.0	0.0
	17	0.0	0.22	0.0	0.61	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0
	18	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	19	0.0	0.0	0.01E	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.84
	20	0.21	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.34	0.0
	21	0.0	0.23	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	22	0.0	0.41	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	23	0.0	0.06E	0.0	0.49	0.01E	0.0	0.0	0.0	0.07E	0.0	0.34	0.10E
	24	0.02	0.0	2.45	1.93	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0
	25	2.09	0.0	0.0	0.05E	2.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.98	0.05E	0.67E	0.0
	27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0
	28	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0
	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.54	0.0	0.0
	31	0.47	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0
	TOTAL	4.77	1.48	5.41	5.21	3.88	7.61	3.13	0.43	3.70	8.93	1.10	1.25
	STA AV	2.20	2.61	2.58	3.94	4.25	3.47	1.85	2.13	2.72	2.94	2.91	2.55

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69, 69B, 70, 75A, and 84A. Records began Jan. 1, 1939. STA AV based on 35 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.092	2.858	0.005	0.014	6.166	0.0	0.0	0.0	0.074	0.013	0.0
2	0.042	0.022	0.201	0.009	0.005	0.160	0.0	0.0	0.0	0.0	0.004	0.0
3	0.768	0.017	0.051	0.090	0.002	14.576	0.0	0.0	0.0	0.0	0.002	0.0
4	0.013	0.015	0.046	0.005	0.002	0.250	0.0	0.0	0.0	0.0	0.004	0.0
5	0.007	0.016	0.025	0.002	0.005	4.239	0.0	0.0	0.0	0.0	0.003	0.0
6	0.008	0.015	0.218	0.013	0.165	0.256	0.467	0.0	0.0	0.036	0.002	0.0
7	0.681	0.029	0.031	0.023	0.190	0.024	0.0 T	0.0	0.0	0.0	0.003	0.0
8	0.054	0.478	0.015	0.025	0.002	0.009	0.0	0.0	0.0	0.0	0.002	0.0
9	0.008	0.038	0.091	0.008	0.0 T	0.010	0.0	0.0	0.0	0.0	0.0 T	0.0
10	0.009	0.024	1.144	0.001	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
11	0.009	0.022	0.023	0.001	0.0	0.021	0.0	0.0	0.0	4.938	0.0	0.0
12	0.008	0.024	0.011	0.001	0.0	0.047	0.040	0.0	0.0	0.112	0.0	0.0
13	0.079	0.022	0.018	0.001	0.0	0.031	0.008	0.0	0.0	1.395	0.0	0.0
14	0.136	0.008	0.016	0.026	0.0	0.014	0.0	0.0	0.0	0.124	0.0	0.0
15	0.051	0.007	0.046	0.568	0.0	0.004	0.0	0.0	0.0	0.345	0.0	0.0
16	0.018	0.007	0.673	0.158	0.0	0.001	0.0	0.0	0.0	1.272	0.0	0.0
17	0.022	0.040	0.017	0.870	0.0	0.0	0.0	0.0	0.0	0.060	0.0	0.0
18	0.022	0.025	0.010	0.060	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0
19	0.006	0.016	0.010	0.013	0.0	0.0	0.0	0.0	0.0	0.004	0.002	0.137
20	0.010	0.011	0.004	0.004	0.0	0.001	0.0	0.0	0.0	0.003	0.036	0.002
21	0.043	0.056	0.003	0.016	0.0	0.003	0.0	0.0	0.0	0.001	0.0 T	0.0 T
22	0.003	0.302	0.005	0.033	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
23	0.001	0.162	0.008	0.807	0.0	0.0	0.0	0.0	0.0	0.001	0.016	0.0
24	0.001	0.044	8.309	9.280	0.0	0.0	0.0	0.0	0.0	0.0 T	0.007	0.0
25	6.174	0.023	0.019	0.146	3.156	0.0	0.0	0.0	0.0	0.0	0.001	0.0
26	0.323	0.019	0.009	0.019	1.065	0.0	0.0	0.0	0.0	0.001	0.003	0.0
27	0.068	0.016	0.011	0.004	0.0 T	0.0	0.0	0.0	0.0	0.001	0.0 T	0.0
28	0.014	0.017	0.013	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.013		0.015	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.018		0.018	0.007	0.0	0.0	0.0	0.0	0.0	0.939	0.0	0.0
31	0.401		0.012		0.0		0.0	0.0		0.466		0.0
MEAN	0.2907	0.0561	0.4494	0.4068	0.1485	0.8607	0.0166	0.0	0.0	0.3155	0.0034	0.0045
INCHES	1.625	0.283	2.512	2.201	0.830	4.656	0.093	0.0	0.0	1.764	0.018	0.025
STA AV	0.470	0.557	0.749	0.905	1.032	0.652	0.142	0.048	0.083	0.175	0.355	0.515

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.180316. Records began Jan. 1, 1939. STA AV based on 35 yr period.

1973 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-2										
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973										
RG 000069										
3-24	0.0	0.000	3-24	52	0.0	0.0	3-24	100	0.014	0.0
				106	0.1286	0.03		130	0.018	0.0001
				136	0.1200	0.09		145	0.018	0.0001
				141	0.4800	0.13		150	0.026	0.0001
				144	1.0000	0.18		155	0.045	0.0001
WATERSHED CONDITIONS:										
35% pasture, Bermudagrass and										
native grass, good cover,										
moderately grazed; 17% cotton;										
28% fall planted oats; 19%										
row grain sorghum; 1% gravel										
roads. Cropland terraced,										
cultivated on contour.										
				146	3.6000	0.30		200	0.072	0.0002
				156	0.9600	0.46		203	0.100	0.0002
				202	1.2000	0.58		206	0.135	0.0002
				208	0.8000	0.66		209	0.182	0.0003
				210	1.5000	0.71		212	0.268	0.0004
				212	3.3000	0.82		215	0.410	0.0005
				214	4.8000	0.98		216	0.532	0.0006
				216	4.8000	1.14		217	0.620	0.0006
				218	3.0000	1.24		218	0.729	0.0007
				220	1.2000	1.28		219	0.835	0.0008
				222	1.2000	1.32		220	1.012	0.0009
				226	0.6000	1.36		221	1.179	0.0011
				231	0.9600	1.44		222	1.388	0.0012
				236	0.7200	1.50		223	1.645	0.0014
				241	1.6800	1.64		224	2.389	0.0017
				246	0.7200	1.70		225	3.675	0.0020
				252	1.7000	1.87		226	5.538	0.0026
				256	0.6000	1.91		227	12.711	0.0038
				306	0.5400	2.00		228	17.034	0.0056
				316	0.1800	2.03		229	19.719	0.0079
				326	0.1800	2.06		230	19.847	0.0104
				336	0.3000	2.11		231	20.299	0.0129
				341	0.7200	2.17		232	27.371	0.0159
				346	0.3600	2.20		233	33.387	0.0197
				416	0.2000	2.30		234	41.008	0.0244

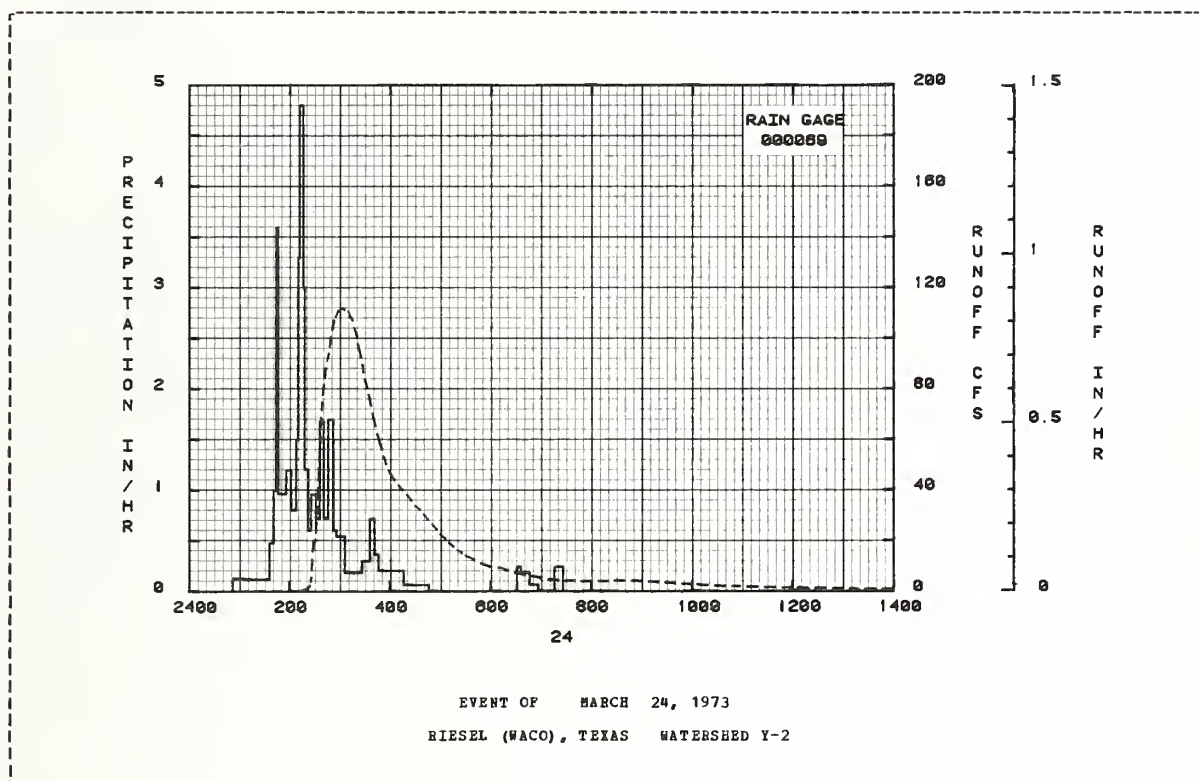
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.

1973			SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS			WATERSHED Y-2		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCR 24, 1973 (CONTINUED)											
3-24	446	0.0600	2.33	3-24	235	48.656	0.0300				
	631	0.0	2.33		236	55.079	0.0364				
	636	0.2400	2.35		237	61.109	0.0437				
	646	0.1800	2.38		238	68.689	0.0519				
	656	0.0600	2.39		239	74.691	0.0608				
	716	0.0	2.39		240	78.832	0.0704				
	726	0.2400	2.43		241	81.638	0.0804				
					242	85.141	0.0910				
					243	88.139	0.1018				
					245	91.062	0.1283				
					247	93.906	0.1474				
					249	100.512	0.1718				
					251	103.580	0.1973				
					253	107.042	0.2237				
					255	108.607	0.2506				
					258	110.911	0.2919				
					301	111.642	0.3337				
					305	111.276	0.3895				
					310	110.546	0.4589				
					315	106.922	0.5271				
					320	100.746	0.5921				
					325	92.310	0.6525				
					330	83.382	0.7076				
					335	76.062	0.7574				
					340	67.977	0.8025				
					345	61.696	0.8431				
					350	56.021	0.8800				
					355	50.188	0.9132				
					400	46.522	0.9435				
					405	43.991	0.9718				
					410	41.852	0.9987				
					415	40.003	1.0243				
					420	38.021	1.0487				
					425	35.676	1.0718				
					430	33.778	1.0936				
					435	32.149	1.1142				
					440	30.323	1.1337				
					445	28.245	1.1521				
					450	26.364	1.1692				
					455	24.323	1.1850				
					500	22.412	1.1997				
					505	20.689	1.2132				
					510	19.018	1.2256				
					515	17.645	1.2371				
					520	16.251	1.2477				
					525	14.901	1.2574				
					530	13.987	1.2665				
					540	12.224	1.2829				
					550	10.602	1.2972				
					600	9.358	1.3097				
					610	9.102	1.3212				
					620	7.989	1.3319				
					630	7.079	1.3414				
					640	6.191	1.3497				
					650	5.682	1.3571				
					700	5.069	1.3638				
					710	4.563	1.3699				
					720	4.129	1.3753				
					730	4.070	1.3804				
					750	3.832	1.3903				
					810	3.958	1.4001				
					830	4.168	1.4103				
					850	3.910	1.4204				
					919	3.454	1.4337				
					939	3.005	1.4418				
					1009	2.425	1.4520				
					1039	1.798	1.4600				
					1109	1.608	1.4664				
					1139	1.330	1.4719				
					1209	1.127	1.4765				
					1239	0.918	1.4803				
					1259	0.752	1.4824				
					1329	0.631	1.4850				
					1359	0.522	1.4872				
					1429	0.418	1.4890				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-2					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
EVENT OF MARCH 24, 1973 (CONTINUED)								
							3-24	1459
								1529
								1559
								1659
								1759
								1859
								1959
								2159
								2400
								0.328
								0.281
								0.233
								0.161
								0.118
								0.093
								0.079
								0.051
								0.036
								1.4904
								1.4915
								1.4925
								1.4939
								1.4950
								1.4958
								1.4964
								1.4974
								1.4981

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.007513.



RIESEL (WACO), TEXAS WATERSHED Y-6

LOCATION: Falls Co., Texas; 18 mi. SE of Waco,; Brazos River Basin. Lat. 31 deg. 28 min. 26 sec. N.; Long. 96 deg. 53 min. 09 sec. W.

AREA: 16.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED Y-6	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	4.76	1.47	5.44	5.17	3.90	7.62	3.32	0.45	3.72	8.96	1.09	1.23	47.13	
	Q	1.134	0.181	1.632	1.582	1.094	3.880	0.594	0.0	0.0	1.073	0.002	0.003	11.175	
STA AV	P	2.15	2.58	2.39	3.94	3.81	3.81	1.91	2.12	2.77	3.37	2.81	2.34	34.01	
	Q	0.339	0.329	0.461	0.671	0.739	0.742	0.148	0.053	0.085	0.284	0.336	0.348	4.535	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval 6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.
1973		6-3	2.855	6-3	1.728	6-3	1.999	6-3	2.068	6-3	2.078	6-3	2.084	6-1	2.895
														5-31	3.867
MAXIMUMS FOR PERIOD OF RECORD															
		6-10 1941	3.790	3-29 1965	1.900	3-29 1965	2.340	3-29 1965	2.950	3-29 1965	3.130	3-29 1965	3.670	11-22 1940	4.870
														4-19 1957	8.490

NOTES: Watershed conditions: 93% cotton; 5% pasture; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69B and 75A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED Y-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.08E	0.0	1.11	0.0	0.0	2.35	0.0	0.0	0.0	1.58	0.0	0.0			
2	0.55	0.0	0.0	0.46	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.60	0.0	0.0	0.0	0.0	3.09	0.0	0.0	0.0	0.0	0.0	0.0			0.31
4	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.08E	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.29	1.28	0.0	0.0	0.29	0.0	0.0	0.0			
6	0.22	0.0	0.28	0.24	0.54	0.0	2.04	0.0	0.77	0.83	0.0	0.0			
7	0.36	0.39	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0			
8	0.0	0.16	0.0	0.17	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0			
9	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.47	0.0	0.0	0.05E	0.0	0.0	0.0	0.31	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	2.55	0.0	0.0			
12	0.15S	0.0	0.0	0.0	0.0	0.23	0.84	0.0	0.0	0.13	0.0	0.0			
13	0.0	0.0	0.02E	0.0	0.02E	0.03E	0.0	0.0	0.0	0.91	0.0	0.0			
14	0.0	0.0	0.0	0.35	0.0	0.01E	0.0	0.0	0.0	0.16	0.0	0.0			
15	0.0	0.0	0.22	0.71	0.0 E	0.0	0.17	0.0	0.0	0.61	0.0	0.0			
16	0.0	0.0	0.60	0.0	0.0	0.0	0.20	0.0	0.0	0.24	0.0	0.0			
17	0.0	0.22	0.0	0.61	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0			
18	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.01E	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.81			
20	0.21	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.34	0.0			
21	0.0	0.25	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.39	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.05E	0.0	0.49	0.02E	0.0	0.0	0.0	0.07E	0.0	0.34	0.11E			
24	0.01	0.0	2.45	1.90	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0			
25	2.10	0.0	0.0	0.05E	2.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.99	0.04E	0.08E	0.0			
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0			
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.53	0.0	0.0			
31	0.45		0.0		0.0		0.01E	0.0		0.0		0.0			
TOTAL	4.76	1.47	5.44	5.17	3.90	7.62	3.32	0.45	3.72	8.96	1.09	1.23			
STA AV	2.15	2.58	2.39	3.94	3.81	3.81	1.91	2.12	2.77	3.37	2.81	2.34			

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69B and 75A. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 30 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.007	0.294	0.0 T	0.001	0.737	0.0	0.0	0.0	0.0	0.0	0.0
2	0.005	0.003	0.008	0.006	0.001	0.003	0.0	0.0	0.0	0.0	0.0	0.0
3	0.043	0.003	0.003	0.011	0.001	1.419	0.0	0.0	0.0	0.0	0.0	0.0
4	0.003	0.002	0.002	0.001	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0
5	0.004	0.001	0.001	0.0	0.001	0.467	0.302	0.0	0.0	0.0	0.0	0.0
6	0.003	0.002	0.025	0.002	0.017	0.011	0.0	0.0	0.0	0.0	0.0	0.0
7	0.063	0.004	0.002	0.004	0.005	0.002	0.0	0.0	0.0	0.0	0.0	0.0
8	0.006	0.036	0.001	0.004	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
9	0.001	0.006	0.007	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0 T	0.005	0.079	0.001	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
11	0.002	0.003	0.001	0.0 T	0.0	0.001	0.0	0.0	0.0	0.497	0.0	0.0
12	0.002	0.002	0.001	0.0 T	0.0	0.002	0.104	0.0	0.0	0.0 T	0.0	0.0
13	0.008	0.002	0.0 T	0.0 T	0.0	0.001	0.001	0.0	0.0	0.075	0.0	0.0
14	0.030	0.001	0.0 T	0.003	0.0	0.001	0.0	0.0	0.0	0.0 T	0.0	0.0
15	0.006	0.001	0.003	0.063	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0
16	0.002	0.001	0.051	0.005	0.0	0.0	0.0	0.0	0.0	0.056	0.0	0.0
17	0.002	0.004	0.002	0.040	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
18	0.003	0.003	0.0 T	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0 T	0.002	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002
20	0.002	0.001	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
21	0.003	0.004	0.0 T	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.012	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.008	0.001	0.059	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
24	0.0 T	0.003	0.620	0.830	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
25	0.496	0.001	0.004	0.018	0.656	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.036	0.001	0.002	0.007	0.067	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.009	0.001	0.001	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.002	0.001	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.004		0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.002		0.002	0.001	0.0	0.0	0.0	0.0	0.0	0.072	0.0	0.0
31	0.036		0.001		0.0		0.0	0.0		0.025		0.0
MEAN	0.0250	0.0044	0.0361	0.0361	0.0242	0.0886	0.0131	0.0	0.0	0.0237	0.0	0.0001
INCHES	1.134	0.181	1.632	1.582	1.094	3.880	0.594	0.0	0.0	1.073	0.002	0.003
STA AV	0.339	0.329	0.461	0.671	0.739	0.742	0.148	0.053	0.085	0.284	0.336	0.348

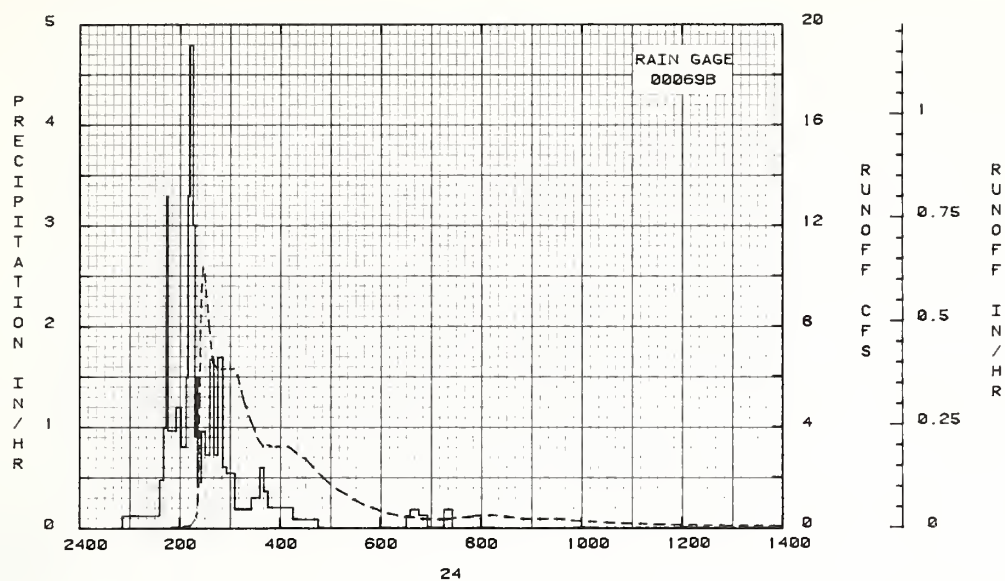
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.460224. Records began Jan. 1939; station not in operation July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 30 yr period.

1973	SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS WATERSHED Y-6							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF MARCH 24, 1973													
RG 00069B			RG 00069B										
3-24	0.0	0.000	3-24	52	0.0	0.0	3-24	100	0.002	0.0			
				106	0.1286	0.03		145	0.007	0.0002			
				136	0.1200	0.09		148	0.010	0.0002			
				141	0.4800	0.13		150	0.024	0.0003			
				144	1.0000	0.18		152	0.043	0.0003			
WATERSHED CONDITIONS: 93% cotton; 5% pasture, Bermudagrass, good cover, moderately grazed; 2% gravel roads. Cropland terraced, cultivated on contour.					146	3.3000	0.29	155	0.061	0.0005			
					156	0.9600	0.45	158	0.058	0.0007			
					202	1.2000	0.57	201	0.069	0.0009			
					208	0.8000	0.65	205	0.087	0.0012			
					210	1.5000	0.70	210	0.090	0.0016			
					212	3.3000	0.81	212	0.106	0.0018			
					214	4.8000	0.97	214	0.143	0.0021			
					216	4.8000	1.13	216	0.220	0.0025			
					218	3.0000	1.23	218	0.339	0.0030			
					220	0.9000	1.26	220	0.485	0.0039			
			222	1.5000	1.31	221	0.627	0.0044					
			226	0.4500	1.34	222	1.068	0.0053					
			231	0.9600	1.42	223	2.381	0.0070					
			236	0.7200	1.48	224	5.060	0.0108					
			241	1.6800	1.62	225	7.875	0.0173					
			246	0.7200	1.68	226	9.394	0.0261					
			252	1.7000	1.85	228	10.356	0.0462					
			256	0.6000	1.89	230	10.053	0.0669					
			306	0.5400	1.98	235	8.003	0.1127					
			316	0.1800	2.01	240	6.530	0.1495					
			326	0.1800	2.04	245	6.309	0.1821					
			336	0.3000	2.09	250	6.309	0.2140					
			341	0.6000	2.14	255	6.336	0.2461					
			346	0.3600	2.17	300	6.309	0.2782					
			416	0.2000	2.27	305	6.336	0.3102					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.060843.

1973			SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS			WATERSHED Y-6		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 24, 1973 (CONTINUED)											
3-24	446	0.0800	2.31	3-24	310	6.012	0.3415				
	631	0.0	2.31		315	5.227	0.3700				
	636	0.1200	2.32		320	4.737	0.3953				
	646	0.1800	2.35		325	4.257	0.4181				
	656	0.1200	2.37		330	3.830	0.4386				
	716	0.0	2.37		335	3.452	0.4570				
	726	0.1800	2.40		340	3.254	0.4740				
					345	3.307	0.4907				
					350	3.219	0.5072				
					355	3.219	0.5235				
					400	3.237	0.5399				
					410	3.237	0.5727				
					420	2.948	0.6041				
					430	2.740	0.6329				
					440	2.381	0.6589				
					450	2.027	0.6812				
					500	1.719	0.7002				
					510	1.480	0.7164				
					520	1.298	0.7305				
					530	1.083	0.7426				
					540	0.913	0.7527				
					550	0.806	0.7614				
					600	0.666	0.7689				
					610	0.563	0.7751				
					620	0.490	0.7805				
					630	0.427	0.7851				
					640	0.410	0.7894				
					650	0.354	0.7932				
					700	0.331	0.7967				
					715	0.331	0.8017				
					730	0.401	0.8073				
					745	0.453	0.8138				
					800	0.509	0.8211				
					810	0.509	0.8263				
					830	0.444	0.8360				
					850	0.354	0.8440				
					910	0.354	0.8512				
					930	0.339	0.8583				
					1000	0.263	0.8674				
					1030	0.202	0.8745				
					1100	0.166	0.8801				
					1130	0.129	0.8846				
					1200	0.103	0.8881				
					1300	0.069	0.8933				
					1400	0.047	0.8969				
					1500	0.027	0.8991				
					1600	0.021	0.9006				
					1700	0.013	0.9016				
					1800	0.010	0.9023				
					2400	0.004	0.9049				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.060843.



EVENT OF MARCH 24, 1973
RIESEL (WACO), TEXAS WATERSHED Y-6

RIESEL (WACO), TEXAS WATERSHED Y-7

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 08 sec. N.; Long. 96 deg. 52 min. 49 sec. W.

AREA: 40.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS				WATERSHED Y-7							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	4.74	1.48	5.38	5.31	3.87	7.77	3.58	0.50	3.65	8.85	1.08	1.08	47.29					
	Q	1.683	0.298	3.059	2.536	0.592	4.245	0.000	0.0	0.0	1.454	0.000	0.012	13.879					
STA AV	P	2.19	2.62	2.42	4.05	3.82	3.80	1.89	2.18	2.72	3.36	2.83	2.36	34.24					
	Q	0.432	0.454	0.710	0.930	0.836	0.859	0.122	0.103	0.132	0.277	0.429	0.447	5.730					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	1.952	6- 3	1.503	6- 3	2.069	6- 3	2.472	6- 3	2.527	6- 3	2.541	6- 3	3.111	5-29	4.243		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-10	3.590	4-19	2.340	3-29	2.960	3-29	3.580	3-29	3.840	3-29	4.660	11-22	5.370	4-19	8.890		
		1941		1957		1965		1965		1965		1965		1940		1957			

NOTES: Watershed conditions: 100% pasture, Bermudagrass, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pnb. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 89 and W-2A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973		DAILY PRECIPITATION (inches)					RIESEL (WACO), TEXAS WATERSHED Y-7							
Day		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.04E	0.0	1.09	0.0	0.0	0.0	2.30	0.0	0.0	0.0	1.80	0.0	0.0	
2	0.55	0.0	0.0	0.40	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.61	0.0	0.0	0.0	0.0	0.0	3.18	0.0	0.0	0.0	0.0	0.0	0.0	0.20
4	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.24	1.34	0.0	0.0	0.28	0.0	0.0	0.0	
6	0.22	0.0	0.18	0.25	0.56	0.0	0.0	2.06	0.0	0.83	0.79	0.0	0.0	
7	0.39	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	
8	0.0	0.19	0.0	0.19	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.51	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.35	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	2.50	0.0	0.0	
12	0.11S	0.0	0.0	0.0	0.0	0.0	0.25	0.96	0.0	0.0	0.18	0.0	0.0	
13	0.0	0.0	0.02E	0.0	0.03E	0.07E	0.0	0.0	0.0	0.0	0.80	0.0	0.0	
14	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	
15	0.0	0.0	0.20	0.65	0.0 E	0.0	0.20	0.0	0.0	0.0	0.58	0.0	0.0	
16	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.27	0.0	0.0	
17	0.0	0.22	0.0	0.66	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	
18	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.01E	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.80	
20	0.25	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.33	0.0	
21	0.0	0.23	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.43	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.04E	0.0	0.37	0.04E	0.0	0.0	0.0	0.0	0.11E	0.0	0.28	0.08E	
24	0.00I	0.0	2.46	2.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	
25	2.12	0.0	0.0	0.07E	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.85	0.04E	0.09E	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.0	
31	0.42		0.0		0.0			0.0 E	0.0		0.0		0.0	
TOTAL		4.74	1.48	5.38	5.31	3.87	7.77	3.58	0.50	3.65	8.85	1.08	1.08	
STA AV		2.19	2.62	2.42	4.05	3.82	3.80	1.89	2.18	2.72	3.36	2.83	2.36	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 89 and W-2A. Records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 30 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.034	1.079	0.0	0.0	1.367	0.0	0.0	0.0	0.0	0.0 T	0.0
2	0.0 T	0.001	0.114	0.0 T	0.0	0.075	0.0	0.0	0.0	0.0	0.0	0.0
3	0.173	0.0	0.015	0.0 T	0.0	4.194	0.0	0.0	0.0	0.0	0.0	0.0
4	0.007	0.0	0.012	0.0	0.0	0.080	0.0	0.0	0.0	0.0	0.0	0.0
5	0.001	0.0	0.002	0.0	0.0	1.349	0.0	0.0	0.0	0.0	0.0	0.0
6	0.001	0.0	0.022	0.0	0.006	0.069	0.0 T	0.0	0.0	0.0	0.0	0.0
7	0.136	0.0 T	0.005	0.0	0.046	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
8	0.013	0.182	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.002	0.015	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0 T	0.001	0.577	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0 T	0.008	0.0	0.0	0.0	0.0	0.0	0.0	1.463	0.0	0.0
12	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0
13	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.317	0.0	0.0
14	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0
15	0.001	0.0	0.004	0.213	0.0	0.0	0.0	0.0	0.0	0.012	0.0	0.0
16	0.0 T	0.0	0.523	0.111	0.0	0.0	0.0	0.0	0.0	0.257	0.0	0.0
17	0.0	0.0	0.006	0.539	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
18	0.0	0.0	0.0 T	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.020
20	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T
21	0.006	0.006	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0 T	0.135	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.098	0.0	0.304	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.020	2.750	3.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	2.294	0.006	0.004	0.042	0.397	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.108	0.002	0.0	0.003	0.545	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.012	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.269	0.0	0.0
31	0.071	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.121	0.0	0.0
MEAN	0.0913	0.0179	0.1658	0.1421	0.0321	0.2378	0.0	0.0	0.0	0.0788	0.0	0.0006
INCHES	1.683	0.298	3.059	2.536	0.592	4.245	0.000	0.0	0.0	1.454	0.000	0.012
STA AV	0.432	0.454	0.710	0.930	0.836	0.859	0.122	0.103	0.132	0.277	0.429	0.447

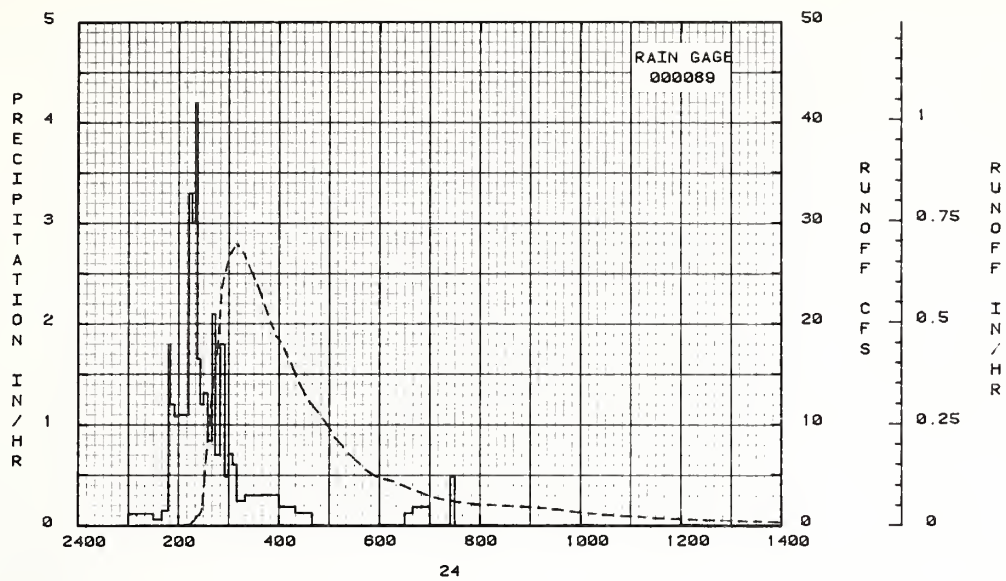
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.595041. Records began Jan. 1939; station not in operation from July 1943 to May 1, 1947; part-year amounts not included in averages. STA AV based on 30 yr period.

1973 SELECTED HUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-7								
ANTECEDENT CONDITIONS			RAINFALL				HUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 24, 1973											
RG 000089			RG 000089								
3-24	0.0	0.0	3-24	100	0.0	0.0	3-24	147	0.0	0.0	
				130	0.1200	0.06		152	0.0	0.0	
				140	0.0600	0.07		157	0.001	0.0	
				148	0.1500	0.09		200	0.004	0.0	
				150	1.8000	0.15		202	0.011	0.0000	
WATERSHED CONDITIONS: 100% pasture, Bermudagrass, fair cover, moderately grazed, dormant.				155	1.2000	0.25		204	0.021	0.0000	
				200	1.0800	0.34		205	0.025	0.0000	
				206	1.1000	0.45		206	0.038	0.0000	
				212	1.1000	0.56		207	0.063	0.0001	
				216	3.3000	0.78		208	0.084	0.0001	
				220	3.0000	0.98		210	0.114	0.0002	
				222	4.2000	1.12		212	0.143	0.0003	
				226	1.6500	1.23		214	0.193	0.0004	
				230	1.2000	1.31		216	0.310	0.0006	
				235	1.3200	1.42		217	0.433	0.0008	
				240	0.8400	1.49		218	0.531	0.0010	
				244	2.1000	1.63		220	0.743	0.0015	
				250	0.7000	1.70		222	0.921	0.0022	
				255	1.8000	1.85		224	1.081	0.0030	
				300	0.4800	1.89		226	1.229	0.0040	
				305	0.7200	1.95		227	1.358	0.0045	
				310	0.6000	2.00		228	1.726	0.0051	
	320	0.2400	2.04		229	2.115	0.0059				
	340	0.3000	2.14		230	3.194	0.0070				
	400	0.3000	2.24		231	4.447	0.0086				
	420	0.1800	2.30		232	5.483	0.0106				
	440	0.1200	2.34		233	6.644	0.0131				
	630	0.0	2.34		234	7.605	0.0161				
	640	0.1200	2.36		235	8.454	0.0194				
	650	0.1800	2.39		236	9.174	0.0231				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.024793.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-7							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
			3-24	700	0.1800	2.42	3-24	237	9.998	0.0270
				710	0.0	2.42		238	10.963	0.0314
				725	0.0	2.42		239	11.871	0.0361
				730	0.4800	2.46		240	12.867	0.0412
								241	13.765	0.0467
								242	14.718	0.0526
								247	17.610	0.0860
								252	23.867	0.1288
								257	25.537	0.1799
								302	27.008	0.2342
								307	27.612	0.2905
								310	27.896	0.3250
								312	27.693	0.3480
								317	27.168	0.4046
								327	25.145	0.5128
								337	23.294	0.6128
								347	20.871	0.7040
								357	18.686	0.7858
								402	18.198	0.8239
								407	17.405	0.8606
								417	15.497	0.9286
								427	13.577	0.9887
								437	12.170	1.0419
								447	11.166	1.0901
								457	9.998	1.1339
								507	8.692	1.1724
								517	7.706	1.2063
								527	6.764	1.2363
								537	6.053	1.2627
								547	5.260	1.2861
								557	4.762	1.3068
								617	4.304	1.3443
								637	3.620	1.3770
								657	2.994	1.4044
								717	2.520	1.4271
								737	2.252	1.4468
								800	2.044	1.4673
								830	1.900	1.4917
								900	1.774	1.5145
								930	1.574	1.5352
								1000	1.248	1.5527
								1030	1.037	1.5669
								1100	0.867	1.5787
								1130	0.689	1.5883
								1200	0.583	1.5962
								1230	0.488	1.6028
								1300	0.413	1.6084
								1400	0.266	1.6168
								1500	0.188	1.6225
								1600	0.135	1.6265
								1700	0.097	1.6294
								1800	0.066	1.6314
								2000	0.036	1.6339
								2200	0.024	1.6354
								2400	0.016	1.6364

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.024793.



EVENT OF MARCH 24, 1973
RIESEL (WACO), TEXAS WATERSHED Y-7

HIESEL (WACO), TEXAS WATERSHED Y-8

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 22 sec. N.; Long. 96 deg. 52 min. 54 sec. W.

AREA: 20.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								HIESEL (WACO), TEXAS WATERSHED Y-8									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	4.67	1.50	5.45	5.44	4.01	7.77	3.33	0.43	3.65	8.89	1.15	1.20	47.49			
	Q	1.559	0.162	1.513	1.577	0.270	4.072	0.163	0.0	0.0	2.769	0.015	0.005	12.106			
STA AV	P	2.09	2.59	2.48	4.04	3.75	3.96	1.96	2.16	2.86	3.50	2.85	2.37	34.60			
	Q	0.399	0.371	0.538	0.782	0.730	0.812	0.165	0.065	0.114	0.334	0.378	0.398	5.086			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	1.468	6- 3	1.235	6- 3	1.906	6- 3	2.339	6- 3	2.383	6- 3	2.394	6- 3	2.849	5-29	4.069
MAXIMUMS FOR PERIOD OF RECORD																	
		6-10	3.290	4-19	2.410	4-19	2.800	4-23	3.320	4-23	3.370	3-29	3.590	11-22	5.640	4-19	9.100
		1941		1957		1957		1957		1957		1965		1940		1957	

NOTES: Watershed conditions: 95% oats; 3% pasture; 2% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. Precipitation data obtained from rain gage 75A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)													HIESEL (WACO), TEXAS WATERSHED Y-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.04E	0.0	1.12	0.0	0.0	2.38	0.0	0.0	0.0	1.56	0.0	0.0		
2	0.58	0.0	0.0	0.43	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.59	0.0	0.0	0.0	0.0	3.22	0.0	0.0	0.0	0.0	0.0	0.26		
4	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.34	1.30	0.0	0.0	0.25	0.0	0.0	0.0		
6	0.20	0.0	0.23	0.24	0.53	0.0	2.02	0.0	0.75	0.82	0.0	0.0		
7	0.35	0.42	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0		
8	0.0	0.17	0.0	0.22	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.47	0.0	0.0	0.05E	0.0	0.0	0.0	0.35	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	2.56	0.0	0.0		
12	0.10S	0.0	0.0	0.0	0.0	0.22	0.81	0.0	0.0	0.17	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.82	0.0	0.0		
14	0.0	0.0	0.0	0.34	0.0	0.04E	0.0	0.0	0.0	0.15	0.0	0.0		
15	0.0	0.0	0.21	0.72	0.0 E	0.0	0.20	0.0	0.0	0.58	0.0	0.0		
16	0.0	0.0	0.58	0.0	0.0	0.0	0.22	0.0	0.0	0.30	0.0	0.0		
17	0.0	0.22	0.0	0.63	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0		
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.01E	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.84		
20	0.22	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.35	0.0		
21	0.0	0.21	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.42	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.06E	0.0	0.52	0.0	0.0	0.0	0.0	0.08E	0.0	0.37	0.10E		
24	0.02	0.0	2.54	2.05	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0		
25	2.04	0.0	0.0	0.06E	3.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.98	0.05E	0.07E	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0		0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0		
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.48	0.0	0.0		
31	0.50		0.0		0.0		0.0 E	0.0		0.0		0.0		
TOTAL	4.67	1.50	5.45	5.44	4.01	7.77	3.33	0.43	3.65	8.89	1.15	1.20		
STA AV	2.09	2.59	2.48	4.04	3.75	3.96	1.96	2.16	2.86	3.50	2.85	2.37		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 75A. Records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 28 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.003	0.285	0.0	0.001	0.799	0.0	0.0	0.0	0.035	0.004	0.0
2	0.003	0.0	0.014	0.0	0.0	0.021	0.0	0.0	0.0	0.0 T	0.001	0.0
3	0.103	0.0	0.003	0.002	0.0	2.060	0.0	0.0	0.0	0.0	0.0 T	0.0
4	0.001	0.0	0.004	0.001	0.0	0.033	0.0	0.0	0.0	0.0	0.001	0.0
5	0.001	0.0	0.0	0.0	0.001	0.604	0.0	0.0	0.0	0.0	0.0 T	0.0
6	0.002	0.0	0.018	0.001	0.016	0.040	0.141	0.0	0.0	0.0	0.0	0.0
7	0.102	0.005	0.001	0.0 T	0.003	0.0 T	0.0	0.0	0.0	0.0	0.0 T	0.0
8	0.003	0.055	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
9	0.0	0.001	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.001	0.101	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0 T	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	1.138	0.0	0.0
12	0.005	0.0 T	0.0	0.0	0.0	0.0 T	0.002	0.0	0.0	0.064	0.0	0.0
13	0.017	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.492	0.0	0.0
14	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.075	0.0	0.0
15	0.007	0.0	0.002	0.027	0.0	0.0	0.0	0.0	0.0	0.143	0.0	0.0
16	0.003	0.0	0.057	0.001	0.0	0.0	0.0	0.0	0.0	0.347	0.0	0.0
17	0.003	0.001	0.001	0.076	0.0	0.0	0.0	0.0	0.0	0.024	0.0	0.0
18	0.002	0.0	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0
19	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.001	0.004
20	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
21	0.003	0.006	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.044	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.020	0.0	0.085	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0
24	0.0	0.003	0.823	1.161	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	1.008	0.001	0.0 T	0.014	0.165	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.027	0.0	0.0	0.002	0.050	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
27	0.004	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.0	0.0
31	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.049	0.0	0.0
MEAN	0.0439	0.0051	0.0426	0.0459	0.0076	0.1186	0.0046	0.0	0.0	0.0781	0.0004	0.0001
INCHES	1.559	0.162	1.513	1.577	0.270	4.072	0.163	0.0	0.0	2.769	0.015	0.005
STA AV	0.399	0.371	0.538	0.782	0.730	0.812	0.165	0.065	0.114	0.334	0.378	0.398

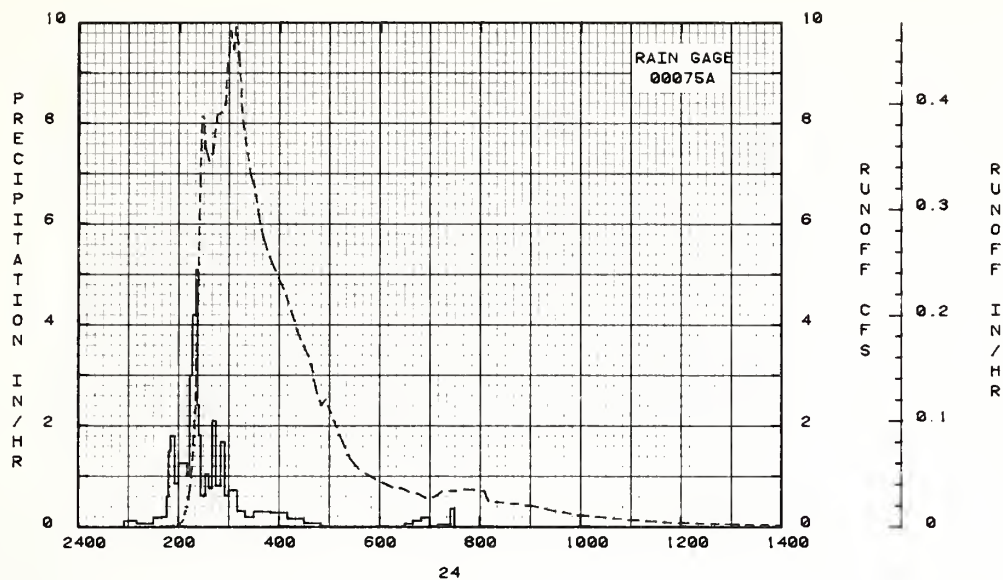
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.144310. Records began Mar. 1, 1939; station not in operation July 1943 to Jan. 1, 1949; part-year amounts not included in averages. STA AV based on 28 yr period.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-8									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 24, 1973												
BG 00075A			BG 00075A									
3-24	0.0	0.0	3-24	55	0.0	0.0	3-24	139	0.0	0.0		
				100	0.1200	0.01		142	0.0	0.0		
				110	0.1200	0.03		145	0.002	0.0		
				130	0.0600	0.05		148	0.005	0.0000		
				140	0.1800	0.08		151	0.014	0.0000		
WATERSHED CONDITIONS: 95% oats; 3% pasture, Bermudagrass, good cover, moderately grazed, dormant; 2% gravel roads. Crop- land terraced, cultivated on contour.				146	0.2000	0.10		154	0.026	0.0001		
				148	0.6000	0.12		159	0.043	0.0002		
				150	1.5000	0.17		202	0.067	0.0003		
				155	1.8000	0.32		204	0.102	0.0005		
				200	0.8400	0.39		206	0.137	0.0007		
				210	1.2600	0.60		207	0.247	0.0008		
				213	1.0000	0.65		208	0.318	0.0010		
				216	3.0000	0.80		209	0.400	0.0013		
				220	4.2000	1.08		210	0.388	0.0016		
				222	5.1000	1.25		212	0.561	0.0024		
				224	2.4000	1.33		214	0.835	0.0035		
				226	1.8000	1.39		216	1.183	0.0051		
				232	0.6000	1.45		218	1.808	0.0075		
				236	1.0500	1.52		219	2.259	0.0091		
				240	0.7500	1.57		220	2.357	0.0109		
				244	2.1000	1.71		221	3.175	0.0131		
250	0.8000	1.79		222	4.180	0.0160						
255	1.6800	1.93		223	4.890	0.0197						
300	0.6000	1.98		224	6.146	0.0241						
305	0.7200	2.04		225	6.861	0.0292						
310	0.7200	2.10		226	7.529	0.0349						
320	0.3000	2.15		227	8.142	0.0412						
330	0.1800	2.18		229	8.090	0.0540						
350	0.3000	2.28		231	7.504	0.0665						
410	0.2700	2.37		235	7.254	0.0899						

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.047680.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-8							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
3-24			430		0.1500	2.42	3-24	240	7.429	0.1191
			450		0.0600	2.44		245	8.168	0.1501
			630		0.0	2.44		250	8.219	0.1826
			640		0.0600	2.45		255	8.402	0.2156
			650		0.1200	2.47		257	9.039	0.2295
			700		0.1800	2.50		259	9.446	0.2442
			710		0.0	2.50		301	9.831	0.2595
			725		0.0400	2.51		305	9.446	0.2902
			730		0.3600	2.54		307	9.914	0.3055
								310	9.555	0.3287
								312	9.120	0.3436
								314	8.507	0.3576
								316	8.013	0.3707
								320	7.554	0.3955
								325	6.983	0.4243
								330	6.716	0.4516
								335	6.169	0.4771
								340	5.754	0.5008
								345	5.483	0.5232
								350	5.260	0.5445
								355	5.063	0.5650
								405	4.698	0.6038
								415	4.200	0.6392
								425	3.704	0.6705
								435	3.360	0.6986
								440	3.048	0.7113
								445	2.626	0.7226
								450	2.407	0.7326
								455	2.524	0.7424
								505	2.099	0.7608
								515	1.690	0.7758
								525	1.327	0.7878
								535	1.133	0.7976
								545	1.022	0.8062
								555	0.926	0.8139
								605	0.846	0.8209
								615	0.768	0.8274
								625	0.757	0.8334
								635	0.683	0.8391
								645	0.652	0.8444
								655	0.561	0.8492
								705	0.591	0.8538
								715	0.704	0.8590
								745	0.736	0.8761
								805	0.704	0.8876
								810	0.495	0.8900
								900	0.409	0.9079
								930	0.303	0.9164
								1000	0.222	0.9227
								1030	0.169	0.9273
								1100	0.125	0.9308
								1130	0.097	0.9335
								1200	0.070	0.9355
								1300	0.041	0.9381
								1400	0.018	0.9395
								1600	0.005	0.9406
								1800	0.001	0.9409
								2400	0.001	0.9412

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.047680.



RIESEL (WACO), TEXAS WATERSHED Y-10

LOCATION: Falls Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 31 sec. N.; Long. 96 deg. 53 min. 10 sec. W.

AREA: 18.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS				WATERSHED Y-10					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	4.80	1.47	5.42	5.04	3.83	7.47	3.17	0.44	3.79	8.99	1.06	1.29	46.78			
	Q	1.322	0.008	1.876	1.993	1.481	4.417	0.0	0.0	0.0	1.367	0.0	0.001	12.466			
STA AV	P	2.13	2.54	2.32	3.89	3.83	3.57	1.83	2.15	2.75	3.08	2.82	2.41	33.32			
	Q	0.429	0.387	0.571	0.874	0.722	0.725	0.184	0.083	0.170	0.259	0.420	0.445	5.271			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	3.274	6- 3	2.081	6- 3	2.398	6- 3	2.450	6- 3	2.457	6- 3	2.459	6- 1	3.363	5-29	4.416
MAXIMUMS FOR PERIOD OF RECORD																	
		4-19	3.730	4-19	2.900	4-19	3.480	3-29	4.130	3-29	4.270	3-29	4.620	4-23	5.340	4-19	10.570
		1957		1957		1957		1965		1965		1965		1957		1957	

NOTES: Watershed conditions: 93% sorghum; 4% pasture; 3% gravel roads. Cropland terraced and contour tilled; no change in conservation practices. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 42.11-5 (Revised). Precipitation and runoff records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. Precipitation data from Thiessen weighted method using rain gages 69 and 69B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED Y-10	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.08E	0.0	1.08	0.0	0.0	2.36	0.0	0.0	0.0	1.54	0.0	0.0		
2	0.55	0.0	0.0	0.46	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.59	0.0	0.0	0.0	0.0	3.05	0.0	0.0	0.0	0.0	0.0	0.34		
4	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.29	1.18	0.0	0.0	0.30	0.0	0.0	0.0		
6	0.21	0.0	0.30	0.24	0.53	0.0	1.98	0.0	0.78	0.82	0.0	0.0		
7	0.38	0.39	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0		
8	0.0	0.16	0.0	0.17	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.47	0.0	0.0	0.05E	0.0	0.0	0.0	0.29	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	2.58	0.0	0.0		
12	0.15S	0.0	0.0	0.0	0.0	0.22	0.75	0.0	0.0	0.12	0.0	0.0		
13	0.0	0.0	0.03E	0.0	0.01E	0.04E	0.0	0.0	0.0	0.95	0.0	0.0		
14	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0		
15	0.0	0.0	0.20	0.72	0.0	0.0	0.16	0.0	0.0	0.62	0.0	0.0		
16	0.0	0.0	0.62	0.0	0.0	0.0	0.20	0.0	0.0	0.21	0.0	0.0		
17	0.0	0.22	0.0	0.59	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0		
18	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.01E	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.84		
20	0.21	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.34	0.0		
21	0.0	0.25	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.39	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.06E	0.0	0.48	0.02E	0.0	0.0	0.0	0.06E	0.0	0.31	0.11E		
24	0.01	0.0	2.41	1.82	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0		
25	2.13	0.0	0.0	0.05E	2.92	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.02	0.05E	0.08E	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.58	0.0	0.0		
31	0.44	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0		
TOTAL	4.80	1.47	5.42	5.04	3.83	7.47	3.17	0.44	3.79	8.99	1.06	1.29		
STA AV	2.13	2.54	2.32	3.89	3.83	3.57	1.83	2.15	2.75	3.08	2.82	2.41		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 69 and 69B. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 31 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-10												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0 T	0.234	0.0	0.0	0.880	0.0	0.0	0.0	0.0	0.0	0.0
2	0.001	0.0	0.019	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
3	0.048	0.0	0.001	0.0	0.0	1.917	0.0	0.0	0.0	0.0	0.0	0.0
4	0.002	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.645	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0 T	0.0	0.006	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
7	0.098	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.007	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.111	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.589	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.160	0.0	0.0
14	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.003	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.028	0.0	0.0
16	0.0 T	0.0	0.022	0.004	0.0	0.0	0.0	0.0	0.0	0.181	0.0	0.0
17	0.0	0.0	0.0	0.160	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.001	0.0	0.157	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	1.072	1.212	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.830	0.0	0.0	0.005	1.123	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.029	0.0	0.0	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.073	0.0	0.0
31	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0
MEAN	0.0333	0.0002	0.0473	0.0519	0.0373	0.1151	0.0	0.0	0.0	0.0345	0.0	0.0
INCHES	1.322	0.008	1.876	1.993	1.481	4.417	0.0	0.0	0.0	1.367	0.0	0.001
STA AV	0.429	0.387	0.571	0.874	0.722	0.725	0.184	0.083	0.170	0.259	0.420	0.445

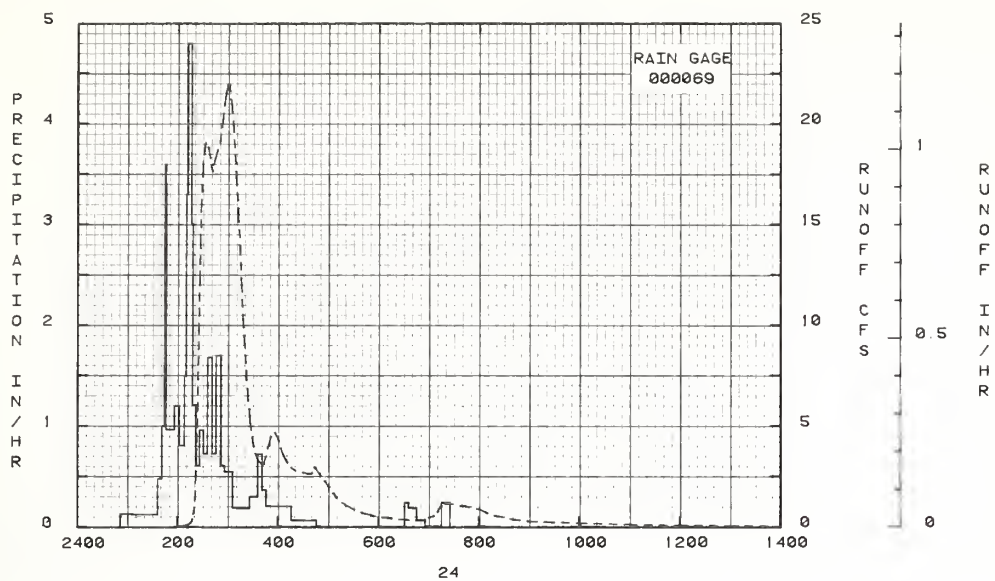
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.279659. Records began July 1, 1938; station not in operation July 1943 to May 1, 1946; part-year amounts not included in averages. STA AV based on 31 yr period.

1973	SELECTED RUNOFF EVENT					RIESEL (WACO), TEXAS		WATERSHED Y-10			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 24, 1973											
RG 000069			RG 000069								
3-24	0.0	0.0	3-24	52	0.0	0.0	3-24	156	0.0	0.0	
				106	0.1286	0.03		158	0.0	0.0	
				136	0.1200	0.09		200	0.001	0.0	
				141	0.4800	0.13		201	0.005	0.0	
				144	1.0000	0.18		202	0.012	0.0000	
WATERSHED CONDITIONS: 93% sorghum; 4% pasture, Bermudagrass, good cover, moderately grazed, dormant; 3% gravel roads. Cropland terraced, contour culti- vation.				146	3.6000	0.30		203	0.021	0.0000	
				156	0.9600	0.46		204	0.039	0.0000	
				202	1.2000	0.58		206	0.057	0.0001	
				208	0.8000	0.66		208	0.074	0.0002	
				210	1.5000	0.71		210	0.083	0.0004	
				212	3.3000	0.82		212	0.094	0.0005	
				214	4.8000	0.98		214	0.145	0.0008	
				216	4.8000	1.14		215	0.184	0.0009	
				218	3.0000	1.24		216	0.227	0.0011	
				220	1.2000	1.28		217	0.277	0.0013	
				222	1.2000	1.32		218	0.404	0.0016	
				226	0.6000	1.36		219	0.650	0.0021	
				231	0.9600	1.44		220	0.962	0.0028	
				236	0.7200	1.50		221	1.394	0.0038	
				241	1.6800	1.64		222	2.781	0.0057	
				246	0.7200	1.70		223	3.840	0.0086	
				252	1.7000	1.87		224	5.799	0.0129	
				256	0.6000	1.91		225	9.720	0.0198	
				306	0.5400	2.00		226	12.320	0.0295	
				316	0.1800	2.03		227	14.494	0.0416	
				326	0.1800	2.06		228	16.257	0.0552	
				336	0.3000	2.11		229	17.473	0.0701	
				341	0.7200	2.17		230	18.163	0.0861	
				346	0.3600	2.20		231	18.511	0.1023	
				416	0.2000	2.30		233	19.074	0.1356	

NOTES: To convert runoff in CFS to IN/HA, multiply by 0.053319.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-10							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
			3-24	446	0.0600	2.33	3-24	236	18.827	0.1862
				631	0.0	2.33		238	18.267	0.2193
				636	0.2400	2.35		240	17.748	0.2511
				646	0.1800	2.38		241	17.610	0.2668
				656	0.0600	2.39		244	18.267	0.3147
				716	0.0	2.39		247	18.721	0.3640
				726	0.2400	2.43		250	19.074	0.4144
								253	20.145	0.4668
								256	21.237	0.5217
								259	21.940	0.5793
								301	21.940	0.6185
								304	20.871	0.6756
								306	19.929	0.7117
								308	18.372	0.7459
								310	16.929	0.7771
								312	15.464	0.8060
								314	13.859	0.8319
								316	11.990	0.8550
								318	10.222	0.8747
								320	8.851	0.8917
								322	7.605	0.9062
								324	6.572	0.9189
								326	5.483	0.9295
								328	4.783	0.9387
								331	3.959	0.9504
								336	3.267	0.9664
								341	3.048	0.9804
								343	3.102	0.9859
								346	3.512	0.9947
								349	4.059	1.0048
								352	4.467	1.0161
								356	4.677	1.0324
								401	4.221	1.0522
								406	3.569	1.0695
								411	3.157	1.0844
								416	2.904	1.0979
								421	2.746	1.1104
								436	2.608	1.1461
								441	2.643	1.1578
								444	2.922	1.1652
								451	2.507	1.1821
								456	2.259	1.1927
								501	1.929	1.2020
								506	1.661	1.2100
								510	1.408	1.2154
								521	1.046	1.2274
								531	0.829	1.2358
								541	0.656	1.2423
								556	0.499	1.2500
								616	0.377	1.2578
								636	0.306	1.2639
								646	0.303	1.2666
								656	0.338	1.2695
								701	0.447	1.2712
								706	0.565	1.2735
								711	0.750	1.2764
								715	1.046	1.2796
								720	1.153	1.2845
								740	1.020	1.3038
								800	0.859	1.3205
								810	0.656	1.3272
								820	0.526	1.3324
								840	0.364	1.3404
								900	0.241	1.3457
								930	0.204	1.3517
								1000	0.160	1.3565
								1100	0.090	1.3632
								1200	0.054	1.3670
								1300	0.031	1.3693
								1400	0.014	1.3705
								1500	0.005	1.3710
								1600	0.002	1.3712
								1800	0.0	1.3713
								2100	0.0	1.3713

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.053319.



EVENT OF MARCH 24, 1973
BIESEL (WACO), TEXAS WATERSHED Y-10

RIESEL (WACO), TEXAS SW-11

LOCATION: Falls County, Texas; 19 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 02 sec. N.; Long. 96 deg. 53 min. 04 sec. W.

AREA: 2.66 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS SW-11									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	4.73	1.48	5.38	5.31	3.87	7.75	3.56	0.50	3.64	8.83	1.08	1.08	47.21			
	Q	2.087	0.0	2.797	2.227	0.110	4.178	0.003	0.0	0.0	1.769	0.0	0.0	13.172			
STA AV	P	1.90	2.50	2.43	3.55	3.42	3.97	2.55	2.09	2.83	4.03	2.98	2.89	35.14			
	Q	0.370	0.326	0.592	0.309	0.160	0.948	0.069	0.006	0.225	0.468	0.827	0.679	4.978			
ANNUAL MAXIMUM DISCRARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	3.521	6- 3	2.407	6- 3	2.791	6- 3	2.895	6- 3	2.897	6- 3	2.897	6- 1	3.442	5-29	4.178
MAXIMUMS FOR PERIOD OF RECORD																	
		10-31	6.670	6- 3	2.407	6- 3	2.791	6- 3	2.895	6- 3	2.897	11-22	3.590	11-22	5.900	11-21	6.220
		1940		1973		1973		1973		1973		1940		1940		1940	

NOTES: Watershed conditions: 100% winter growing Harding grass, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pnt. 1370, p. 42.023-5. Precipitation and runoff records began March 1938; discontinued July 1943; reestablished July 1, 1969, part-year amounts are included in station averages. Precipitation data from rain gage 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)													
RIESEL (WACO), TEXAS SW-11													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.04E	0.0	1.10	0.0	0.0	2.30	0.0	0.0	0.0	1.79	0.0	0.0	
2	0.55	0.0	0.0	0.40	0.09E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.61	0.0	0.0	0.0	0.0	3.17	0.0	0.0	0.0	0.0	0.0	0.20	
4	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.24	1.33	0.0	0.0	0.28	0.0	0.0	0.0	
6	0.22	0.0	0.18	0.25	0.56	0.0	2.05	0.0	0.83	0.79	0.0	0.0	
7	0.39	0.37	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	
8	0.0	0.19	0.0	0.19	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.51	0.0	0.0	0.05E	0.0	0.0	0.0	0.35	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.0	2.50	0.0	0.0	
12	0.11S	0.0	0.0	0.0	0.0	0.25	0.95	0.0	0.0	0.18	0.0	0.0	
13	0.0	0.0	0.02E	0.0	0.03E	0.07E	0.0	0.0	0.0	0.80	0.0	0.0	
14	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	
15	0.0	0.0	0.20	0.65	0.0 E	0.0	0.20	0.0	0.0	0.58	0.0	0.0	
16	0.0	0.0	0.61	0.0	0.0	0.0	0.28	0.0	0.0	0.27	0.0	0.0	
17	0.0	0.22	0.0	0.66	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	
18	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.01E	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.80	
20	0.25	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.33	0.0	
21	0.0	0.23	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.43	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.04E	0.0	0.37	0.04E	0.0	0.0	0.0	0.11E	0.0	0.28	0.08E	
24	0.0	0.0	2.46	2.23	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	
25	2.12	0.0	0.0	0.07E	2.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.85	0.04E	0.09E	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.35	0.0	0.0	
31	0.42	0.0	0.0	0.0	0.0	0.0	0.0 E	0.0	0.0	0.0	0.0	0.0	
TOTAL	4.73	1.48	5.38	5.31	3.87	7.75	3.56	0.50	3.64	8.83	1.08	1.08	
STA AV	1.90	2.50	2.43	3.55	3.42	3.97	2.55	2.09	2.83	4.03	2.98	2.89	

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 89. Records began March 1938; discontinued July 1943; reestablished July 1, 1969. Part-year amounts are included in averages. STA AV based on 11 yr record period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS SW-11												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.077	0.0	0.0	0.080	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.001	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0 T	0.0	0.0	0.0	0.0	0.324	0.0	0.0	0.0	0.0	0.0	0.0
4	0.030	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
5	0.004	0.0	0.0	0.0	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0
6	0.004	0.0	0.0	0.0	0.0	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0
7	0.048	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.121	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
16	0.0	0.0	0.019	0.0 T	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0
17	0.0	0.0	0.0 T	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.199	0.224	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.146	0.0	0.0	0.0 T	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.001	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.038	0.0	0.0
31	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0
MEAN	0.0075	0.0	0.0101	0.0083	0.0004	0.0156	0.0	0.0	0.0	0.0064	0.0	0.0
INCHES	2.087	0.0	2.797	2.227	0.110	4.178	0.003	0.0	0.0	1.769	0.0	0.0
STA AV	0.370	0.326	0.592	0.309	0.160	0.948	0.069	0.006	0.225	0.468	0.827	0.679

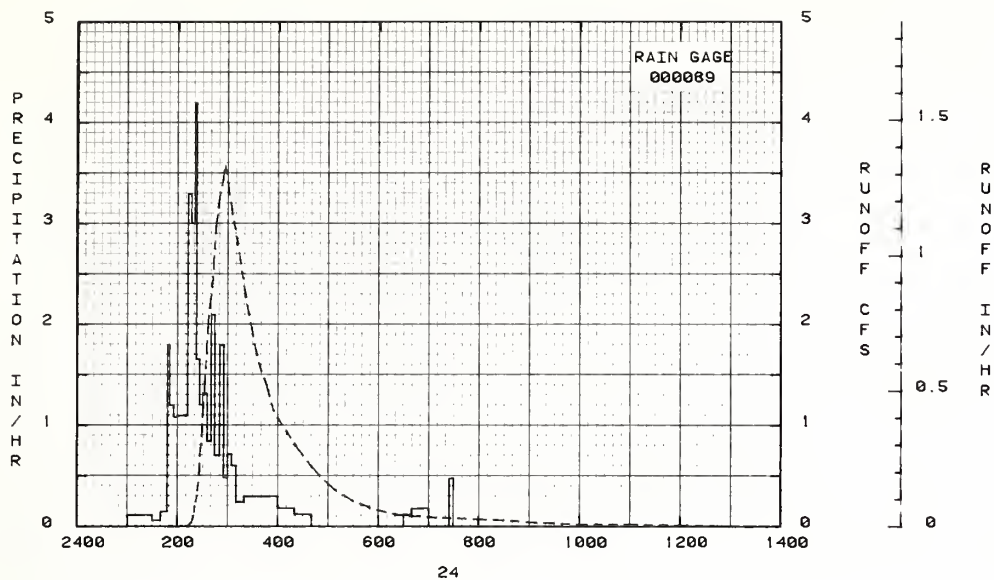
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.947990. Records began March 1938; discontinued July 1943; reestablished July 1, 1969, part-year amounts are included in averages. STA AV based on 11 yr record period.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS SW-11								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 24, 1973											
RG 000089			EG 000089								
3-24	0.0	0.0	3-24	100	0.0	0.0	3-24	149	0.0	0.0	
				130	0.1200	0.06		150	0.003	0.0000	
				140	0.0600	0.07		151	0.007	0.0000	
				148	0.1500	0.09		152	0.007	0.0001	
				150	1.8000	0.15		153	0.007	0.0001	
WATERSHED CONDITIONS:											
100% winter growing Harding				155	1.2000	0.25		155	0.004	0.0002	
grass, sparse cover.				200	1.0800	0.34		200	0.004	0.0003	
			206	1.1000	0.45		205	0.007	0.0005		
			212	1.1000	0.56		210	0.011	0.0008		
			216	3.3000	0.78		213	0.013	0.0010		
			220	3.0000	0.98		214	0.019	0.0011		
			222	4.2000	1.12		215	0.026	0.0012		
			226	1.6500	1.23		216	0.038	0.0014		
			230	1.2000	1.31		217	0.055	0.0017		
			235	1.3200	1.42		218	0.074	0.0021		
			240	0.8400	1.49		219	0.105	0.0027		
			244	2.1000	1.63		220	0.149	0.0035		
			250	0.7000	1.70		221	0.199	0.0045		
			255	1.8000	1.85		222	0.252	0.0059		
			300	0.4800	1.89		223	0.313	0.0077		
			305	0.7200	1.95		224	0.361	0.0098		
			310	0.6000	2.00		225	0.442	0.0123		
			320	0.2400	2.04		226	0.545	0.0153		
			340	0.3000	2.14		227	0.704	0.0193		
			400	0.3000	2.24		228	0.820	0.0240		
			420	0.1800	2.30		229	0.936	0.0294		
			440	0.1200	2.34		230	1.095	0.0358		
			630	0.0	2.34		231	1.226	0.0430		
			640	0.1200	2.36		232	1.346	0.0509		
			650	0.1800	2.39		233	1.491	0.0597		

NOTES: To convert runoff in CFS to IN/HR, multiply by .372833.

1973 SELECTED RUNOFF EVENT			BIESEL (WACO), TEXAS SW-11							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
3-24				700	0.1800	2.42	3-24	234	1.636	0.0695
				710	0.0	2.42		235	1.842	0.0803
				725	0.0	2.42		236	1.957	0.0920
				730	0.4800	2.46		237	2.090	0.1046
								238	2.168	0.1179
								240	2.297	0.1456
								242	2.478	0.1753
								243	2.683	0.1913
								245	2.959	0.2265
								247	3.087	0.2639
								250	3.309	0.3236
								253	3.432	0.3865
								255	3.543	0.4296
								256	3.583	0.4517
								258	3.495	0.4958
								300	3.363	0.5386
								305	3.087	0.6387
								310	2.861	0.7310
								315	2.596	0.8159
								320	2.338	0.8925
								325	2.090	0.9612
								330	1.879	1.0230
								335	1.688	1.0784
								340	1.528	1.1283
								345	1.427	1.1743
								350	1.293	1.2165
								355	1.140	1.2542
								400	1.067	1.2886
								410	0.936	1.3508
								420	0.815	1.4052
								430	0.696	1.4522
								440	0.587	1.4920
								450	0.499	1.5257
								500	0.422	1.5544
								510	0.350	1.5783
								520	0.301	1.5986
								530	0.250	1.6157
								540	0.217	1.6302
								550	0.184	1.6427
								600	0.159	1.6533
								620	0.121	1.6707
								640	0.098	1.6843
								650	0.096	1.6903
								700	0.091	1.6961
								800	0.072	1.7265
								830	0.058	1.7387
								900	0.039	1.7477
								930	0.032	1.7543
								1000	0.025	1.7596
								1100	0.015	1.7671
								1200	0.009	1.7716
								1300	0.004	1.7740
								1400	0.002	1.7751
								1600	0.001	1.7762
								1900	0.0	1.7768

NOTES: To convert runoff in CFS to IN/HR, multiply by .372833.



EVENT OF MARCH 24, 1973
RIESEL (WACO), TEXAS SW-11

RIESEL (WACO), TEXAS WATERSHED SW-12

LOCATION: McLennan Co., Texas; 18 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 48 sec. N.; Long. 96 deg. 52 min. 59 sec. W.

AREA: 2.97 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED SW-12	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	4.88	1.45	5.41	5.20	3.87	7.64	2.58	0.40	3.62	8.87	1.11	1.27	46.30	
	Q	1.765	0.259	3.472	2.627	0.617	4.714	0.0	0.0	0.0	0.884	0.0	0.0	14.339	
STA AV	P	2.12	2.62	2.28	3.91	3.79	3.64	1.84	2.11	2.73	3.07	2.82	2.37	33.33	
	Q	0.474	0.589	0.664	0.694	0.553	0.502	0.084	0.017	0.033	0.038	0.205	0.390	4.244	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	Date	Vol.	Date	Vol.	Date	Vol.
1973		6-3	4.403	6-3	2.558	6-3	2.952	6-3	3.032	6-3	3.037	6-3	3.037	6-1	4.112
														5-29	4.713
MAXIMUMS FOR PERIOD OF RECORD															
		6-3	4.403	3-29	3.070	3-29	3.830	3-29	4.620	3-29	4.800	3-29	5.340	3-29	5.390
		1973		1965		1965		1965		1965		1965		1965	1957

NOTES: Watershed conditions: 100% native grass meadow mowed annually for hay. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.24-4. Precipitation and runoff records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. Precipitation data obtained from rain gage 70. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED SW-12	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.05E	0.0	1.05	0.0	0.0	2.52	0.0	0.0	0.0	1.36	0.0	0.0			
2	0.61	0.0	0.0	0.44	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.62	0.0	0.0	0.0	0.0	3.22	0.0	0.0	0.0	0.0	0.0	0.0			0.30
4	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0			0.0
5	0.0	0.0	0.0	0.0	0.30	0.94	0.0	0.0	0.22	0.0	0.0	0.0			0.0
6	0.20	0.0	0.27	0.24	0.53	0.0	1.70	0.0	0.75	0.83	0.0	0.0			0.0
7	0.38	0.37	0.0	0.0	0.0	0.0	0.0	0.17	0.0	0.0	0.0	0.0			0.0
8	0.0	0.20	0.0	0.19	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0			0.0
9	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
10	0.0	0.0	0.49	0.0	0.0	0.05E	0.0	0.0	0.0	0.29	0.0	0.0			0.0
11	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	2.71	0.0	0.0			0.0
12	0.20S	0.0	0.0	0.0	0.0	0.21	0.35	0.0	0.0	0.15	0.0	0.0			0.0
13	0.0	0.0	0.02E	0.0	0.01E	0.04E	0.0	0.0	0.0	0.83	0.0	0.0			0.0
14	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0			0.0
15	0.0	0.0	0.21	0.76	0.0E	0.0	0.17	0.0	0.0	0.61	0.0	0.0			0.0
16	0.0	0.0	0.61	0.0	0.0	0.0	0.26	0.0	0.0	0.24	0.0	0.0			0.0
17	0.0	0.18	0.0	0.60	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0			0.0
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
19	0.0	0.0	0.01E	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.85			0.0
20	0.20	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.34	0.0			0.0
21	0.0	0.23	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
22	0.0	0.42	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
23	0.0	0.05E	0.0	0.46	0.01E	0.0	0.0	0.0	0.05E	0.0	0.31	0.12E			0.0
24	0.04	0.0	2.42	1.92	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0			0.0
25	2.08	0.0	0.0	0.04E	2.95	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.94	0.06E	0.08E	0.0			0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.66	0.0	0.0	0.0			0.0
28	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0			0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0			0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.60	0.0	0.0			0.0
31	0.47	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	0.0			0.0
TOTAL	4.88	1.45	5.41	5.20	3.87	7.64	2.58	0.40	3.62	8.87	1.11	1.27			
STA AV	2.12	2.62	2.28	3.91	3.79	3.64	1.84	2.11	2.73	3.07	2.82	2.37			

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 70. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV based on 31 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-12												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.097	0.0	0.0	0.145	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
3	0.021	0.0	0.0	0.0	0.0	0.379	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.010	0.0	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.0
7	0.016	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.041	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.034	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0
16	0.0	0.0	0.039	0.001	0.0	0.0	0.0	0.0	0.0	0.029	0.0	0.0
17	0.0	0.0	0.0	0.047	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.001	0.0	0.043	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.240	0.203	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.167	0.0	0.0	0.0	0.071	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0 T	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.045	0.0	0.0
31	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0
MEAN	0.0071	0.0012	0.0140	0.0109	0.0025	0.0196	0.0	0.0	0.0	0.0036	0.0	0.0
INCHES	1.765	0.259	3.472	2.627	0.617	4.714	0.0	0.0	0.0	0.884	0.0	0.0
STA AV	0.474	0.589	0.664	0.694	0.553	0.502	0.044	0.017	0.033	0.038	0.205	0.390

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 8.014025. Records began Jan. 1, 1938; station not in operation July 1943 to June 1, 1947; part-year amounts not included in averages. STA AV based on 31 yr period.

1973 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED SW-12										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973										
RG 000070			RG 000070							
3-24	0.0	0.0	3-24	100	0.0	0.0	3-24	149	0.0	0.0
				120	0.0900	0.03		150	0.001	0.0
				140	0.1200	0.07		151	0.003	0.0000
				145	0.2400	0.09		153	0.005	0.0000
				150	0.4800	0.13		155	0.006	0.0001
WATERSHED CONDITIONS:				155	2.2800	0.32		156	0.008	0.0001
100% native grass meadow,				200	0.9600	0.40		157	0.011	0.0002
12 to 14 inches, dormant.				205	1.0800	0.49		158	0.016	0.0003
				210	1.2000	0.59		159	0.020	0.0004
				214	0.9000	0.65		200	0.028	0.0005
				216	2.7000	0.74		201	0.038	0.0007
				218	5.4000	0.92		202	0.047	0.0009
				220	4.8000	1.08		203	0.060	0.0012
				222	4.2000	1.22		204	0.077	0.0016
				226	1.2000	1.30		205	0.105	0.0021
				232	0.5000	1.35		206	0.151	0.0028
				234	2.1000	1.42		207	0.213	0.0038
				240	0.7000	1.49		208	0.274	0.0052
				244	1.8000	1.61		209	0.353	0.0069
				248	0.6000	1.65		210	0.471	0.0092
				252	1.2000	1.73		211	0.603	0.0122
				254	3.0000	1.83		212	0.732	0.0160
				300	0.5000	1.88		213	0.856	0.0204
				305	0.7200	1.94		214	1.037	0.0256
				310	0.4800	1.98		215	1.353	0.0323
				330	0.2400	2.06		216	1.860	0.0412
				350	0.3900	2.19		217	2.499	0.0533
				410	0.2100	2.26		218	3.099	0.0688
				430	0.1200	2.30		219	3.963	0.0887
				450	0.0600	2.32		220	4.902	0.1133

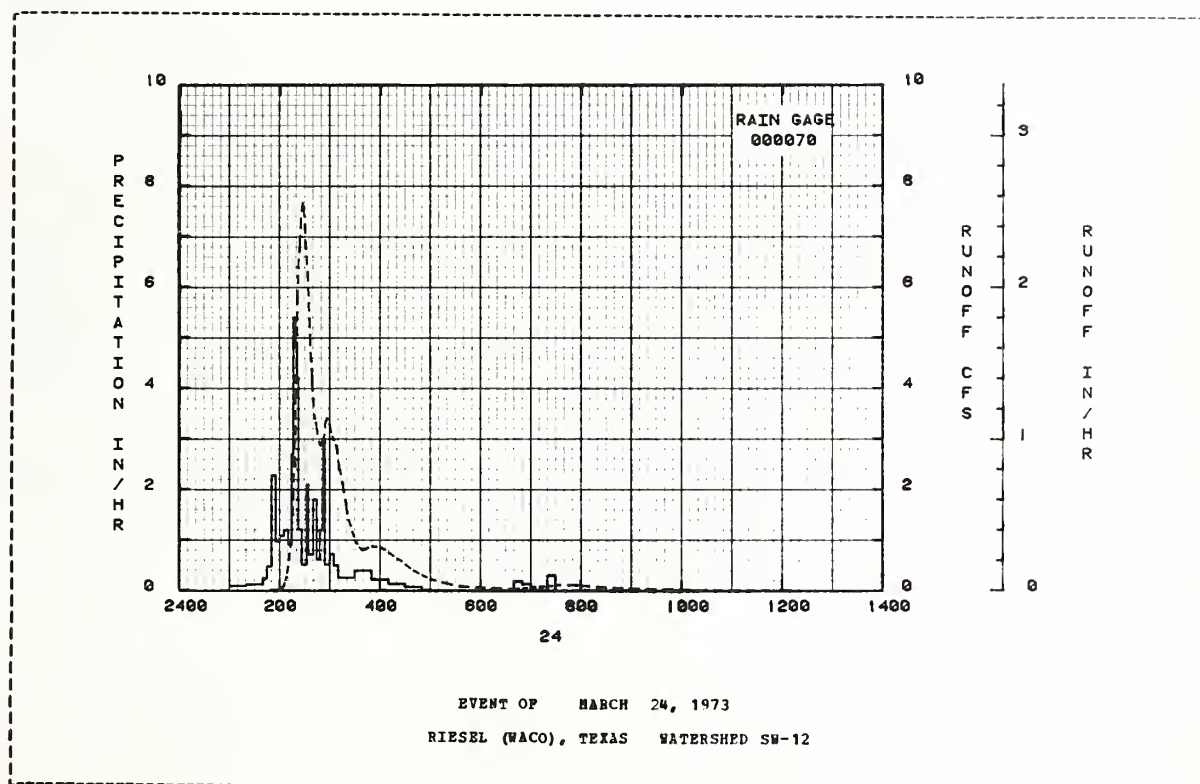
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333918.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-12							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
3-24	640	0.0			2.32		3-24	221	5.932	0.1433
	650	0.1800			2.35			222	6.551	0.1779
	700	0.1200			2.37			223	6.738	0.2153
	720	0.0			2.37			224	7.025	0.2534
	730	0.3000			2.42			225	7.356	0.2933
								226	7.583	0.3347
								227	7.672	0.3776
								228	7.557	0.4198
								229	7.381	0.4612
								230	7.074	0.5019
								231	6.738	0.5402
								233	6.265	0.6122
								235	5.351	0.6771
								236	4.844	0.7054
								237	4.513	0.7313
								238	4.215	0.7559
								239	3.938	0.7785
								240	3.631	0.7994
								241	3.464	0.8191
								242	3.378	0.8383
								243	3.309	0.8569
								245	3.081	0.8926
								247	2.930	0.9259
								248	2.861	0.9419
								250	2.890	0.9740
								251	2.930	0.9902
								252	3.005	1.0066
								253	3.076	1.0237
								254	3.294	1.0414
								255	3.363	1.0598
								256	3.409	1.0786
								257	3.378	1.0977
								259	3.278	1.1346
								301	3.117	1.1703
								303	3.029	1.2044
								305	2.959	1.2378
								307	2.867	1.2701
								309	2.705	1.3012
								311	2.468	1.3299
								313	2.287	1.3565
								315	2.114	1.3810
								317	1.925	1.4034
								319	1.718	1.4238
								321	1.508	1.4417
								323	1.384	1.4578
								325	1.266	1.4725
								327	1.154	1.4860
								329	1.057	1.4983
								331	0.965	1.5095
								333	0.911	1.5199
								336	0.842	1.5346
								339	0.790	1.5482
								341	0.807	1.5571
								346	0.854	1.5802
								351	0.865	1.6041
								356	0.862	1.6281
								401	0.837	1.6518
								406	0.804	1.6746
								411	0.735	1.6960
								416	0.671	1.7156
								421	0.617	1.7335
								426	0.566	1.7500
								431	0.495	1.7647
								436	0.434	1.7777
								441	0.383	1.7890
								446	0.335	1.7990
								451	0.292	1.8077
								456	0.252	1.8153
								501	0.216	1.8218
								506	0.186	1.8274
								516	0.146	1.8366
								526	0.106	1.8437
								536	0.083	1.8489
								546	0.064	1.8530
								556	0.052	1.8562

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.333918.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-12					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
								Rate
								(cfs)
								Acc.
								(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)								
							3-24	
							616	0.035 1.8611
							636	0.024 1.8643
							646	0.026 1.8657
							651	0.035 1.8666
							656	0.047 1.8677
							701	0.060 1.8692
							706	0.068 1.8710
							711	0.074 1.8730
							716	0.082 1.8751
							721	0.089 1.8775
							726	0.092 1.8800
							731	0.108 1.8828
							736	0.111 1.8859
							746	0.108 1.8920
							756	0.096 1.8976
							800	0.088 1.8997
							810	0.076 1.9043
							820	0.057 1.9080
							830	0.046 1.9108
							840	0.036 1.9131
							900	0.026 1.9165
							920	0.017 1.9189
							940	0.011 1.9205
							1000	0.007 1.9215

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.333918.



RIESEL (WACO), TEXAS WATERSHED SW-17

LOCATION: Falls Co., Texas; 19 mi. SE of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 45 sec. N.; Long. 96 deg. 53 min. 14 sec. W.

AREA: 2.99 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS WATERSHED SW-17									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	4.84	1.50	5.43	5.06	3.71	7.95	3.98	0.18	3.73	9.15	1.07	1.09	47.69			
	Q	1.436	0.098	2.945	2.958	0.570	4.615	0.231	0.0	0.0	2.436	0.0	0.058	15.346			
STA AV	P	2.02	2.66	2.32	4.05	3.72	3.61	1.92	2.27	2.81	3.30	2.90	2.44	34.03			
	Q	0.442	0.600	0.748	0.997	0.754	0.831	0.200	0.090	0.158	0.256	0.490	0.578	6.145			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1973		6- 3	2.634	6- 3	1.935	6- 3	2.387	6- 3	2.630	6- 3	2.664	6- 3	2.673	6- 3	3.470	6- 1	4.554
MAXIMUMS FOR PERIOD OF RECORD																	
		10-31	7.060	4-19	2.540	4-19	2.960	4-23	3.310	3-29	3.520	3-29	4.250	11-22	5.370	4-19	9.420
		1940		1957		1957		1957		1965		1965		1940		1957	

NOTES: Watershed conditions: 100% Bermudagrass pasture. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 42.28-5. Precipitation and runoff record began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. Precipitation data obtained from rain gage W-2. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED SW-17	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.06E	0.0	0.89	0.0	0.0	2.27	0.0	0.0	0.0	2.01	0.0	0.0		
2	0.60	0.0	0.0	0.42	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.56	0.0	0.0	0.0	0.0	3.03	0.0	0.0	0.0	0.0	0.0	0.20		
4	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0		
5	0.0	0.0	0.0	0.0	0.30	1.54	0.0	0.0	0.26	0.0	0.0	0.0		
6	0.22	0.0	0.21	0.22	0.48	0.0	2.11	0.0	0.85	0.77	0.0	0.0		
7	0.39	0.41	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0		
8	0.0	0.17	0.0	0.18	0.0	0.0	0.10E	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.55	0.0	0.0	0.04E	0.0	0.0	0.0	0.46	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	2.56	0.0	0.0		
12	0.17S	0.0	0.0	0.0	0.0	0.36	1.37	0.0	0.0	0.16	0.0	0.0		
13	0.0	0.0	0.0	0.0	0.02E	0.05E	0.0	0.0	0.0	0.84	0.0	0.0		
14	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0		
15	0.0	0.0	0.20	0.67	0.0	0.0	0.22	0.0	0.0	0.60	0.0	0.0		
16	0.0	0.0	0.70	0.0	0.0	0.0	0.18	0.0	0.0	0.24	0.0	0.0		
17	0.0	0.20	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.01E	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.79		
20	0.22	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.35	0.0		
21	0.0	0.22	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.44	0.0	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.06E	0.0	0.43	0.06E	0.0	0.0	0.0	0.11E	0.0	0.30	0.10E		
24	0.02	0.0	2.59	2.03	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0		
25	2.09	0.0	0.0	0.06E	2.77	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.91	0.02E	0.07E	0.0		
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09E	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.29	0.0	0.0		
31	0.49		0.0		0.0		0.0 E	0.0		0.0		0.0		
TOTAL	4.84	1.50	5.43	5.06	3.71	7.95	3.98	0.18	3.73	9.15	1.07	1.09		
STA AV	2.02	2.66	2.32	4.05	3.72	3.61	1.92	2.27	2.81	3.30	2.90	2.44		

NOTES: For daily air temperatures in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W-2. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 29 yr period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-17												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0 T	0.049	0.001	0.0 T	0.102	0.0	0.0	0.0	0.021	0.0	0.0
2	0.0	0.0	0.002	0.002	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
3	0.019	0.0	0.001	0.002	0.0	0.332	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.001	0.001	0.0 T	0.004	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.001	0.001	0.001	0.127	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.001	0.001	0.008	0.005	0.002	0.0	0.0	0.001	0.0	0.0
7	0.006	0.0 T	0.0 T	0.002	0.003	0.001	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.005	0.0	0.002	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.002	0.001	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.029	0.001	0.001	0.002	0.0	0.0	0.0	0.0 T	0.0	0.0
11	0.0	0.0 T	0.0	0.001	0.001	0.001	0.0	0.0	0.0	0.190	0.0	0.0
12	0.0	0.0 T	0.0 T	0.002	0.002	0.001	0.027	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0 T	0.002	0.001	0.001	0.0	0.0	0.0	0.023	0.0	0.0
14	0.0	0.0	0.0	0.004	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.029	0.0 T	0.0 T	0.0	0.0	0.0	0.001	0.0	0.0
16	0.0	0.0	0.030	0.005	0.0	0.0	0.0	0.0	0.0	0.022	0.0	0.0
17	0.0	0.0	0.001	0.049	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.001	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007
20	0.0	0.0	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0 T	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.003	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.002	0.001	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.001	0.240	0.235	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.148	0.0 T	0.001	0.003	0.043	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.002	0.0	0.001	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.001	0.001	0.0	0.0	0.0	0.0	0.0	0.045	0.0	0.0
31	0.005		0.001		0.0		0.0	0.0		0.003		0.0
MEAN	0.0058	0.0004	0.0119	0.0124	0.0023	0.0193	0.0009	0.0	0.0	0.0099	0.0	0.0002
INCHES	1.436	0.098	2.945	2.958	0.570	4.615	0.231	0.0	0.0	2.436	0.0	0.058
STA AV	0.442	0.600	0.748	0.997	0.754	0.831	0.200	0.090	0.158	0.256	0.490	0.578

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.960419. Records began Feb. 1, 1939; station not in operation July 1943 to Jan. 1, 1948; part-year amounts not included in averages. STA AV based on 29 yr period.

1973 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED SW-17										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973										
RG 0000W2										
3-24	0.0	0.000	3-24	100	0.0	0.0	3-24	100	0.001	0.0
				130	0.1400	0.07		140	0.001	0.0002
				150	0.1800	0.13		142	0.002	0.0002
				200	1.2600	0.34		144	0.009	0.0003
				210	1.2000	0.54		145	0.012	0.0004
WATERSHED CONDITIONS:										
100% Bermudagrass pasture,										
4 to 6 inches high, dormant.										
				214	1.2000	0.62		146	0.017	0.0004
				218	4.3500	0.91		148	0.018	0.0006
				222	5.4000	1.27		150	0.021	0.0009
				226	2.1000	1.41		152	0.030	0.0011
				230	0.7500	1.46		153	0.034	0.0013
				235	0.7200	1.52		154	0.044	0.0015
				240	0.9600	1.60		155	0.055	0.0018
				245	1.8000	1.75		156	0.069	0.0021
				250	0.7200	1.81		157	0.082	0.0026
				255	1.2000	1.91		158	0.095	0.0030
				300	1.3200	2.02		159	0.114	0.0036
				305	0.4800	2.06		200	0.141	0.0043
				310	0.8400	2.13		201	0.167	0.0052
				320	0.2400	2.17		202	0.191	0.0062
				330	0.2400	2.21		203	0.224	0.0073
				340	0.3000	2.26		204	0.264	0.0087
				350	0.3600	2.32		205	0.312	0.0103
				400	0.3000	2.37		206	0.366	0.0121
				430	0.1800	2.46		207	0.487	0.0145
				500	0.0600	2.49		208	0.647	0.0177
				630	0.0	2.49		209	0.892	0.0219
				650	0.1500	2.54		210	1.172	0.0276
				710	0.0900	2.57		211	1.580	0.0352
				725	0.0	2.57		212	2.005	0.0452
				730	0.2400	2.59		213	2.420	0.0574

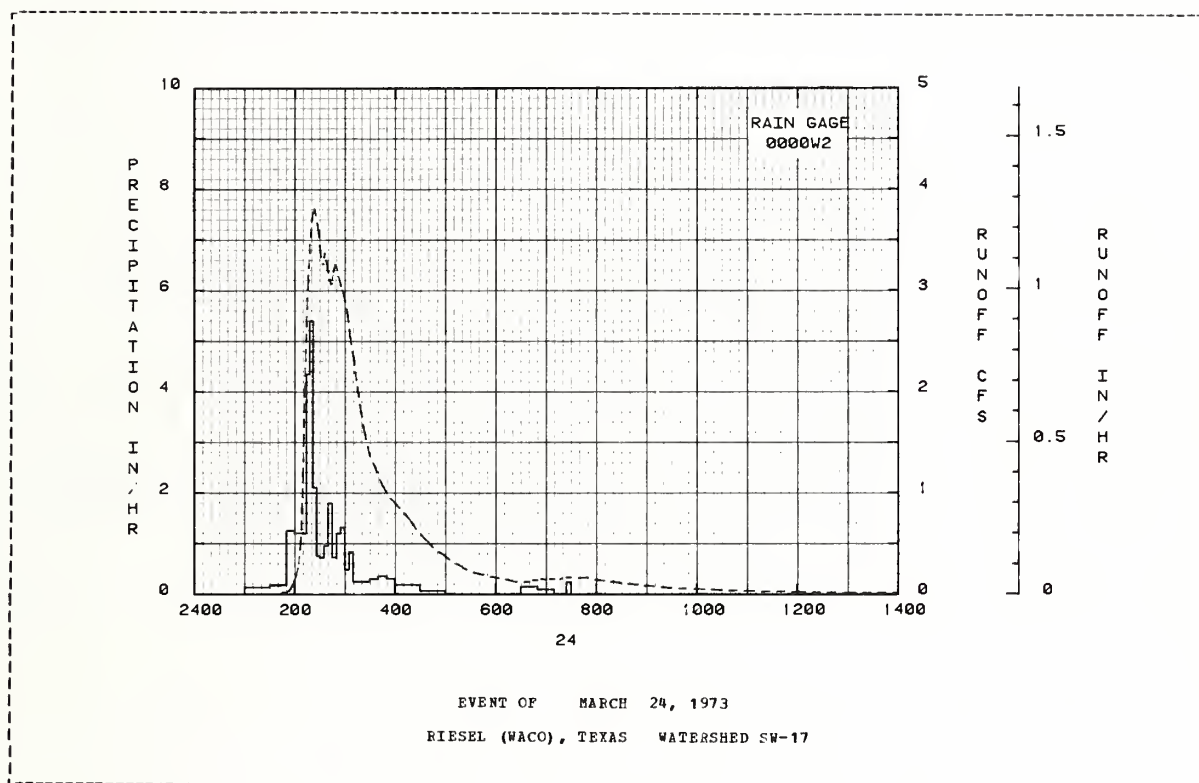
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-17							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
							3-24	214	2.671	0.0714
								215	2.929	0.0870
								216	3.150	0.1038
								218	3.463	0.1402
								220	3.692	0.1799
								222	3.779	0.2210
								223	3.806	0.2422
								225	3.739	0.2837
								227	3.659	0.3248
								229	3.515	0.3643
								231	3.330	0.4022
								233	3.255	0.4385
								234	3.261	0.4567
								235	3.330	0.4749
								236	3.368	0.4933
								238	3.274	0.5301
								240	3.175	0.5656
								243	3.059	0.6174
								244	3.072	0.6343
								245	3.108	0.6515
								247	3.230	0.6864
								248	3.261	0.7043
								250	3.212	0.7402
								252	3.138	0.7752
								255	3.041	0.8265
								257	3.000	0.8600
								300	2.894	0.9089
								303	2.755	0.9556
								306	2.544	0.9995
								310	2.336	1.0535
								315	2.015	1.1137
								320	1.750	1.1657
								325	1.530	1.2110
								330	1.360	1.2510
								335	1.272	1.2874
								345	1.073	1.3522
								355	0.939	1.4078
								405	0.852	1.4573
								415	0.757	1.5018
								425	0.638	1.5403
								435	0.551	1.5732
								445	0.462	1.6012
								455	0.396	1.6249
								505	0.338	1.6452
								515	0.293	1.6627
								525	0.244	1.6775
								535	0.213	1.6901
								545	0.189	1.7012
								555	0.166	1.7110
								615	0.139	1.7279
								625	0.123	1.7351
								635	0.120	1.7419
								640	0.121	1.7452
								645	0.141	1.7488
								650	0.145	1.7528
								655	0.146	1.7568
								700	0.145	1.7608
								705	0.150	1.7649
								710	0.153	1.7691
								717	0.147	1.7749
								720	0.159	1.7774
								725	0.169	1.7819
								730	0.164	1.7866
								750	0.158	1.8044
								800	0.145	1.8127
								820	0.115	1.8271
								840	0.099	1.8389
								900	0.081	1.8489
								930	0.065	1.8610
								1000	0.052	1.8707
								1030	0.039	1.8783
								1100	0.031	1.8841
								1200	0.021	1.8927
								1300	0.014	1.8985
								1400	0.008	1.9021

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-17							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
							3-24	1500	0.004	1.9041
								1600	0.003	1.9053
								1800	0.001	1.9066
								2400	0.001	1.9086

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.331684.



RIESEL (WACO), TEXAS WATERSHED SW-19

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 35 sec. N.; Long. 96 deg. 53 min. 49 sec. W.

AREA: 3.25 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							RIESEL (WACO), TEXAS WATERSHED SW-19										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	5.24	1.54	5.92	5.16	3.98	6.10	3.02	0.59	4.51	9.01	1.14	1.73	47.94			
	Q	2.046	0.149	3.669	2.425	0.943	2.548	0.006	0.0	0.0	1.365	0.0	0.135	13.287			
STA AV	P	2.62	1.23	2.28	3.39	3.07	3.41	5.66	2.14	4.17	5.75	2.28	2.79	38.78			
	Q	0.997	0.050	1.223	0.808	0.314	0.849	0.559	0.017	0.001	0.397	0.601	0.891	6.708			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	2.039	6- 3	1.375	6- 3	1.712	3-24	1.969	3-24	2.013	3-23	2.014	6- 1	2.213	5-29	2.546
MAXIMUMS FOR PERIOD OF RECORD																	
		11-17	2.938	11-17	1.727	11-17	2.269	11-17	2.376	11-17	2.396	11-17	2.399	12- 8	2.483	12- 2	3.015
		1971		1971		1971		1971		1971		1971		1971		1971	

NOTES: Watershed conditions: 100% rangeland grasses with moderate infestation of honey mesquite, moderately grazed. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, USDA Misc. Pub. 1380, p. 42.035-4. Precipitation and runoff records began September 1, 1970, part year records are included in the STA AV. Precipitation data obtained from rain gage 56-B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)													
RIESEL (WACO), TEXAS WATERSHED SW-19													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.09E	0.0	1.27	0.0	0.0	1.85	0.0	0.0	0.0	1.40	0.0	0.0	0.0
2	0.66	0.0	0.0	0.43	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.52	0.0	0.0	0.0	0.0	2.58	0.0	0.0	0.0	0.0	0.0	0.0	0.40
4	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0
5	0.0	0.0	0.05E	0.0	0.32	0.70	0.0	0.0	0.38	0.0	0.0	0.0	0.0
6	0.27	0.0	0.21	0.20	0.50	0.0	1.91	0.0	0.76	0.64	0.0	0.0	0.0
7	0.41	0.43	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0
8	0.0	0.18	0.0	0.24	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.45	0.0	0.0	0.04E	0.0	0.0	0.0	0.19	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	2.56	0.0	0.0	0.0
12	0.30S	0.0	0.0	0.0	0.0	0.20	0.59	0.0	0.0	0.12	0.0	0.0	0.0
13	0.0	0.0	0.04E	0.0	0.02E	0.02E	0.0	0.0	0.0	0.89	0.0	0.0	0.0
14	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0
15	0.0	0.0	0.20	0.76	0.0E	0.0	0.17	0.0	0.0	0.63	0.0	0.0	0.0
16	0.0	0.0	0.82	0.0	0.0	0.0	0.28	0.0	0.0	0.21	0.0	0.0	0.0
17	0.0	0.22	0.0	0.63	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.01E	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.35	1.13	0.0
20	0.26	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.35	0.0	0.0
21	0.0	0.25	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.42	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.04E	0.0	0.63	0.02E	0.0	0.0	0.0	0.02E	0.0	0.25	0.20	0.0
24	0.03	0.0	2.58	1.67	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0
25	2.20	0.0	0.0	0.05E	3.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.51	0.15E	0.15	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	1.86	0.0	0.0	0.0
31	0.47		0.0		0.0		0.06E	0.0		0.0			0.0
TOTAL	5.24	1.54	5.92	5.16	3.98	6.10	3.02	0.59	4.51	9.01	1.14	1.73	
STA AV	2.62	1.23	2.28	3.39	3.07	3.41	5.66	2.14	4.17	5.75	2.28	2.79	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 56B. Records began September 1, 1970. STA AV based on 4 yr (1970-73) record period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-19												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.001	0.119	0.0	0.0	0.070	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0 T	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
3	0.040	0.0	0.0	0.0	0.0	0.250	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0 T	0.026	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0 T	0.0	0.002	0.001	0.006	0.001	0.001	0.0	0.0	0.0	0.0	0.0
7	0.027	0.0	0.0	0.001	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.049	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.055	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.016	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
16	0.0	0.0	0.054	0.003	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.0
17	0.0	0.0	0.0	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.018
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.002	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.275	0.209	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.197	0.0	0.0	0.0 T	0.107	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.001	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.096	0.0	0.0
31	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0
MEAN	0.0090	0.0007	0.0162	0.0110	0.0042	0.0116	0.0	0.0	0.0	0.0060	0.0	0.0006
INCHES	2.046	0.149	3.669	2.425	0.943	2.548	0.006	0.0	0.0	1.365	0.0	0.135
STA AV	0.997	0.050	1.223	0.808	0.314	0.849	0.559	0.017	0.001	0.397	0.601	0.891

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.323585. Records began September 1, 1970.
STA AV based on 4 yr (1970-73) record period.

1973			SELECTED RUNOFF EVENT										RIESEL (WACO), TEXAS										WATERSHED SW-19									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF																									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.																						
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)																						
EVENT OF JANUARY 25, 1973																																
RG 00056B			RG 00056B																													
1-25	0.0	0.0	1-25	30	0.0	0.0	1-25	417	0.0	0.0																						
				100	0.0800	0.04		422	0.0	0.0																						
				130	0.1000	0.09		427	0.003	0.0000																						
				200	0.1000	0.14		432	0.008	0.0002																						
				300	0.0	0.14		437	0.011	0.0004																						
WATERSHED CONDITIONS:																																
100% rangeland grasses, 4 to 6 inches tall, with moderate infestation of honey mesquite.																																
				320	0.0600	0.16		447	0.015	0.0011																						
				340	0.2100	0.23		452	0.019	0.0015																						
				400	0.2700	0.32		457	0.026	0.0021																						
				430	0.0600	0.35		502	0.034	0.0028																						
				445	0.1200	0.38		507	0.046	0.0039																						
				500	0.2400	0.44		512	0.064	0.0053																						
				530	0.3000	0.59		517	0.092	0.0072																						
				550	0.2700	0.68		522	0.117	0.0099																						
				600	0.1800	0.71		527	0.157	0.0134																						
				620	0.1200	0.75		532	0.223	0.0182																						
				640	0.3300	0.86		537	0.282	0.0246																						
				700	0.3300	0.97		542	0.329	0.0324																						
				720	0.3300	1.08		547	0.392	0.0416																						
				730	0.1800	1.11		552	0.429	0.0520																						
				740	0.0	1.11		557	0.452	0.0632																						
				800	0.0600	1.13		602	0.471	0.0749																						
				815	0.1600	1.17		612	0.477	0.0990																						
				820	0.3600	1.20		622	0.464	0.1230																						
				825	0.2400	1.22		627	0.464	0.1348																						
				835	0.0	1.22		632	0.477	0.1467																						
				845	0.3600	1.28		637	0.498	0.1591																						
				900	0.0	1.28		642	0.529	0.1722																						
				910	0.5400	1.37		647	0.549	0.1859																						
				930	0.2100	1.44		652	0.580	0.2002																						
				940	0.3600	1.50		657	0.621	0.2155																						

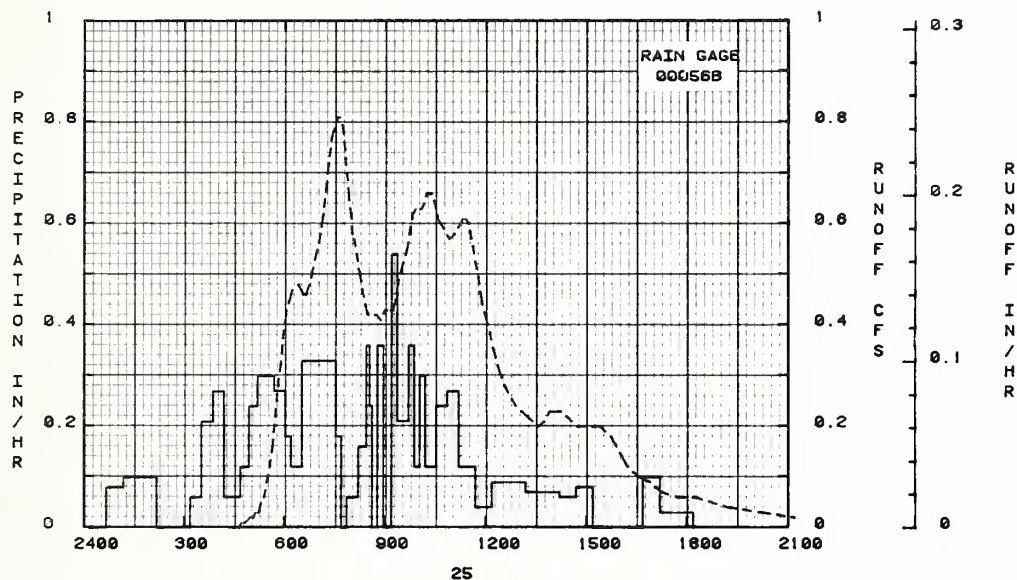
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.305149.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-19							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JANUARY 25, 1973 (CONTINUED)										
			1-25	950	0.1200	1.52	1-25	702	0.670	0.2319
				1000	0.3000	1.57		707	0.721	0.2496
				1020	0.1200	1.61		712	0.769	0.2686
				1040	0.2400	1.69		717	0.786	0.2883
				1100	0.2700	1.78		722	0.806	0.3085
				1130	0.1200	1.84		727	0.806	0.3291
				1200	0.0400	1.86		732	0.786	0.3493
				1300	0.0900	1.95		737	0.732	0.3686
				1400	0.0700	2.02		742	0.657	0.3863
				1430	0.0600	2.05		747	0.605	0.4023
				1500	0.0800	2.09		749	0.580	0.4084
				1630	0.0	2.09		752	0.571	0.4171
				1700	0.1000	2.14		757	0.538	0.4312
				1800	0.0300	2.17		802	0.495	0.4444
								807	0.469	0.4566
								812	0.438	0.4681
								817	0.421	0.4791
								832	0.423	0.5112
								840	0.411	0.5282
								847	0.427	0.5431
								852	0.433	0.5540
								858	0.433	0.5673
								900	0.425	0.5717
								902	0.429	0.5760
								907	0.452	0.5872
								912	0.487	0.5991
								917	0.510	0.6118
								927	0.549	0.6387
								937	0.621	0.6685
								942	0.634	0.6844
								952	0.634	0.7167
								957	0.639	0.7329
								1002	0.660	0.7494
								1012	0.660	0.7830
								1022	0.613	0.8153
								1032	0.589	0.8459
								1042	0.571	0.8754
								1052	0.580	0.9046
								1102	0.601	0.9347
								1107	0.611	0.9501
								1112	0.611	0.9656
								1117	0.596	0.9810
								1122	0.571	0.9958
								1132	0.508	1.0232
								1142	0.444	1.0475
								1152	0.400	1.0689
								1202	0.354	1.0881
								1212	0.307	1.1049
								1222	0.279	1.1198
								1242	0.242	1.1463
								1302	0.219	1.1697
								1312	0.206	1.1805
								1322	0.203	1.1909
								1332	0.213	1.2015
								1342	0.227	1.2127
								1402	0.227	1.2358
								1412	0.224	1.2473
								1422	0.214	1.2584
								1432	0.203	1.2690
								1512	0.202	1.3102
								1522	0.195	1.3203
								1532	0.184	1.3299
								1542	0.158	1.3386
								1552	0.143	1.3463
								1602	0.124	1.3531
								1622	0.100	1.3644
								1642	0.087	1.3740
								1702	0.074	1.3822
								1732	0.062	1.3925
								1802	0.057	1.4016
								1902	0.043	1.4169
								2002	0.028	1.4277
								2102	0.016	1.4344
								2202	0.010	1.4384
								2302	0.008	1.4411

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.305149.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-19							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JANUARY 25, 1973 (CONTINUED)										
							1-25	2400	0.006	1.4432

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.305149.



EVENT OF JANUARY 25, 1973
RIESEL (WACO), TEXAS WATERSHED SW-19

RIESEL (WACO), TEXAS WATERSHED SW-20

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 33 sec. N.; Long. 96 deg. 53 min. 44 sec. W.

AREA: 3.21 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							RIESEL (WACO), TEXAS WATERSHED SW-20										
		Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	5.24	1.54	5.92	5.16	3.98	6.10	3.02	0.59	4.51	9.01	1.14	1.73	47.94			
	Q	2.380	0.199	4.403	2.874	1.640	3.247	0.017	0.0	0.0	3.156	0.0	0.243	18.159			
STA AV	P	2.62	1.23	2.28	3.39	3.07	3.41	5.66	2.14	4.17	5.75	2.28	2.79	38.78			
	Q	1.147	0.066	1.468	0.961	0.548	1.082	0.807	0.027	0.005	0.307	0.199	0.318	6.936			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	2.675	6- 3	1.637	6- 3	1.960	3-24	2.215	3-24	2.279	3-24	2.288	6- 1	2.809	5-29	3.245
MAXIMUMS FOR PERIOD OF RECORD																	
		11-17	3.121	11-17	1.764	11-17	2.387	11-17	2.500	11-17	2.538	12- 8	2.578	6- 1	2.809	12- 2	3.307
		1971		1971		1971		1971		1971		1971		1973		1971	

NOTES: Watershed conditions: 100% rangeland grasses with moderate infestation of honey mesquite, moderately grazed. Honey mesquite was killed Oct. 20, 1972 and trees were left standing. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1970, USDA Misc. Pub. 1380, p. 42.036-5. Precipitation and runoff records began September 1, 1970, part year records are included in STA AV. Precipitation data obtained from rain gage 56-B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)													RIESEL (WACO), TEXAS WATERSHED SW-20	
Day	Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.09E	0.0	1.27	0.0	0.0	1.85	0.0	0.0	0.0	1.40	0.0	0.0		
2	0.66	0.0	0.0	0.43	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.52	0.0	0.0	0.0	0.0	2.58	0.0	0.0	0.0	0.0	0.0	0.0		0.40
4	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0		0.0
5	0.0	0.0	0.05E	0.0	0.32	0.70	0.0	0.0	0.38	0.0	0.0	0.0		0.0
6	0.27	0.0	0.21	0.20	0.50	0.0	1.91	0.0	0.78	0.64	0.0	0.0		0.0
7	0.41	0.43	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0		0.0
8	0.0	0.18	0.0	0.24	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0		0.0
9	0.0	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
10	0.0	0.0	0.45	0.0	0.0	0.04E	0.0	0.0	0.0	0.19	0.0	0.0		0.0
11	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	2.56	0.0	0.0		0.0
12	0.30S	0.0	0.0	0.0	0.0	0.20	0.59	0.0	0.0	0.12	0.0	0.0		0.0
13	0.0	0.0	0.04E	0.0	0.02E	0.02E	0.0	0.0	0.0	0.89	0.0	0.0		0.0
14	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0		0.0
15	0.0	0.0	0.20	0.76	0.0 E	0.0	0.17	0.0	0.0	0.63	0.0	0.0		0.0
16	0.0	0.0	0.82	0.0	0.0	0.0	0.28	0.0	0.0	0.21	0.0	0.0		0.0
17	0.0	0.22	0.0	0.63	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0		0.0
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
19	0.0	0.0	0.01E	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.35	1.13		
20	0.26	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.35	0.0		
21	0.0	0.25	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
22	0.0	0.42	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
23	0.0	0.04E	0.0	0.63	0.02E	0.0	0.0	0.0	0.02E	0.0	0.25	0.20		
24	0.03	0.0	2.58	1.67	0.0	0.0	0.0	0.0	0.0	0.0	0.04E	0.0		
25	2.20	0.0	0.0	0.05E	3.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.51	0.15E	0.15	0.0		0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.0		0.0
28	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0		0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0		0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	1.86	0.0	0.0		0.0
31	0.47	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	5.24	1.54	5.92	5.16	3.98	6.10	3.02	0.59	4.51	9.01	1.14	1.73		
STA AV	2.62	1.23	2.28	3.39	3.07	3.41	5.66	2.14	4.17	5.75	2.28	2.79		

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 56B. Records began September 1, 1970. STA AV based on 4 yr (1970-1973) record period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED SW-20												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0 T	0.135	0.0	0.0	0.113	0.0	0.0	0.0	0.002	0.0	0.0
2	0.0	0.0	0.001	0.0 T	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
3	0.055	0.0	0.0	0.002	0.0	0.277	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0 T	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.045	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0 T	0.0	0.003	0.0 T	0.019	0.001	0.002	0.0	0.0	0.0 T	0.0	0.0
7	0.036	0.0 T	0.0	0.0 T	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.002	0.017	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0 T	0.0 T	0.002	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.208	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.041	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.057	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0
16	0.0	0.0	0.077	0.003	0.0	0.0	0.0	0.0	0.0	0.026	0.0	0.0
17	0.0	0.0	0.0	0.052	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.033
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.001	0.0	0.053	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.309	0.217	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.208	0.0	0.0 T	0.001	0.189	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.001	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.130	0.0	0.0
31	0.018	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0
MEAN	0.0104	0.0010	0.0192	0.0129	0.0071	0.0146	0.0001	0.0	0.0	0.0137	0.0	0.0011
INCHES	2.380	0.199	4.403	2.874	1.640	3.247	0.017	0.0	0.0	3.156	0.0	0.243
STA AV	1.147	0.066	1.468	0.961	0.548	1.082	0.807	0.027	0.005	0.307	0.199	0.318

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 7.414845. Records began September 1, 1970.
STA AV based on 4 yr (1970-73) record period.

1973			SELECTED RUNOFF EVENT				RIESEL (WACO), TEXAS				WATERSHED SW-20			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)				
EVENT OF JANUARY 25, 1973														
BG 00056B			RG 00056B											
1-25	0.0	0.0	1-25	30	0.0	0.0	1-25	341	0.0	0.0				
				100	0.0800	0.04		346	0.0	0.0				
				130	0.1000	0.09		351	0.002	0.0000				
				200	0.1000	0.14		356	0.003	0.0001				
				300	0.0	0.14		401	0.007	0.0002				
WATERSHED CONDITIONS:														
100% rangeland grasses, 4 to 6 inches tall, with moderate infestation of honey mesquite. Honey mesquite was killed Oct. 10, 1972. Trees were left standing.														
				320	0.0600	0.16		406	0.014	0.0005				
				340	0.2100	0.23		411	0.018	0.0009				
				400	0.2700	0.32		416	0.021	0.0014				
				430	0.0600	0.35		426	0.036	0.0029				
				445	0.1200	0.38		431	0.045	0.0039				
				500	0.2400	0.44		437	0.055	0.0054				
				530	0.3000	0.59		442	0.058	0.0069				
				550	0.2700	0.68		447	0.060	0.0084				
				600	0.1800	0.71		452	0.062	0.0100				
				620	0.1200	0.75		456	0.070	0.0114				
				640	0.3300	0.86		501	0.083	0.0133				
				700	0.3300	0.97		506	0.109	0.0158				
				720	0.3300	1.08		511	0.140	0.0190				
				730	0.1800	1.11		516	0.179	0.0231				
				740	0.0	1.11		521	0.239	0.0285				
				800	0.0600	1.13		526	0.295	0.0354				
				815	0.1600	1.17		531	0.355	0.0437				
				820	0.3600	1.20		536	0.433	0.0539				
				825	0.2400	1.22		541	0.487	0.0657				
				835	0.0	1.22		546	0.525	0.0787				
				845	0.3600	1.28		551	0.549	0.0926				
				900	0.0	1.28		556	0.554	0.1067				
				910	0.5400	1.37		606	0.538	0.1349				
				930	0.2100	1.44		611	0.527	0.1486				
				940	0.3600	1.50		616	0.500	0.1618				

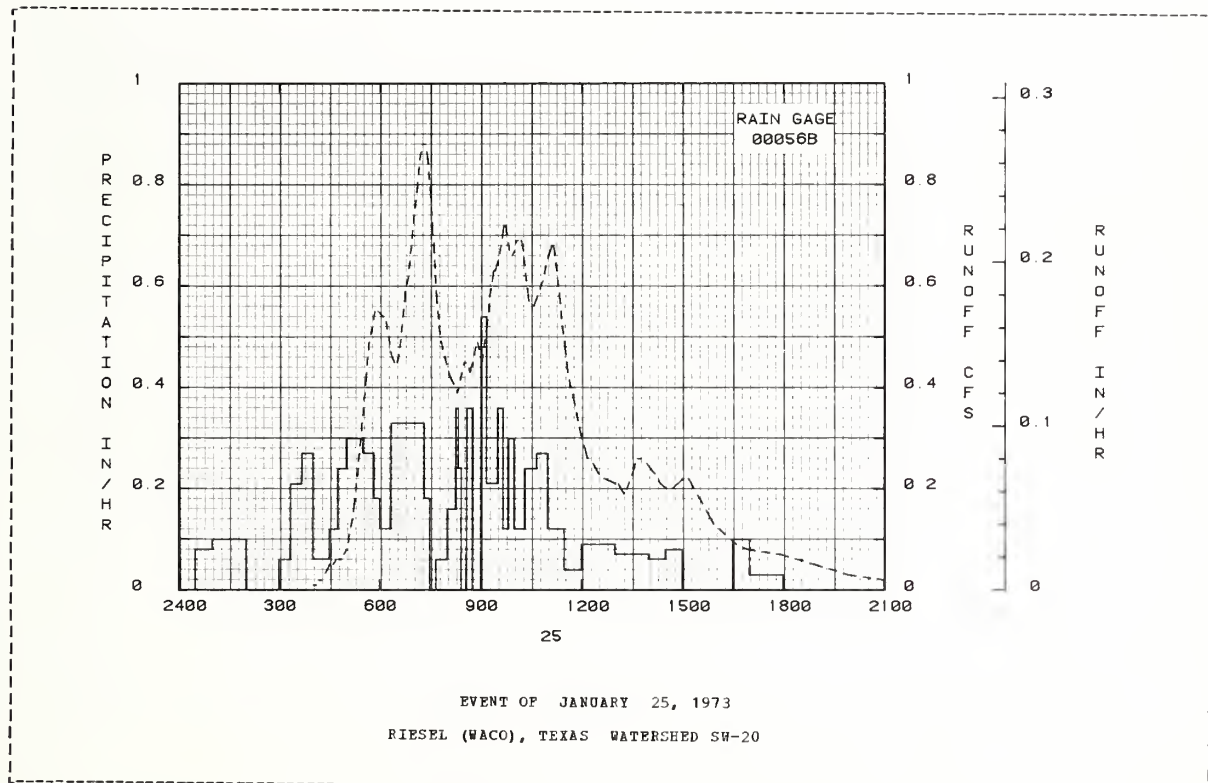
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.308952.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-20							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JANUARY 25, 1973 (CONTINUED)										
			1-25	950	0.1200	1.52	1-25	621	0.464	0.1742
				1000	0.3000	1.57		626	0.452	0.1860
				1020	0.1200	1.61		631	0.452	0.1977
				1040	0.2400	1.69		636	0.479	0.2096
				1100	0.2700	1.78		641	0.540	0.2227
				1130	0.1200	1.84		646	0.587	0.2373
				1200	0.0400	1.86		651	0.618	0.2528
				1300	0.0900	1.95		656	0.675	0.2694
				1400	0.0700	2.02		701	0.744	0.2877
				1430	0.0600	2.05		706	0.792	0.3075
				1500	0.0800	2.09		711	0.854	0.3286
				1630	0.0	2.09		716	0.881	0.3510
				1700	0.1000	2.14		721	0.881	0.3737
				1800	0.0300	2.17		726	0.842	0.3958
								731	0.769	0.4166
								734	0.705	0.4280
								736	0.675	0.4351
								741	0.585	0.4513
								743	0.549	0.4571
								746	0.523	0.4654
								749	0.485	0.4732
								756	0.460	0.4902
								806	0.423	0.5130
								818	0.390	0.5381
								821	0.398	0.5442
								826	0.433	0.5549
								831	0.452	0.5663
								833	0.452	0.5709
								841	0.429	0.5890
								846	0.452	0.6004
								851	0.479	0.6124
								854	0.487	0.6198
								902	0.454	0.6392
								906	0.477	0.6488
								911	0.525	0.6617
								916	0.583	0.6760
								923	0.626	0.6978
								926	0.631	0.7075
								931	0.649	0.7240
								936	0.678	0.7410
								941	0.716	0.7590
								944	0.716	0.7700
								947	0.702	0.7810
								951	0.665	0.7951
								956	0.657	0.8121
								1001	0.667	0.8291
								1003	0.689	0.8361
								1006	0.694	0.8468
								1012	0.694	0.8683
								1016	0.665	0.8822
								1021	0.613	0.8987
								1026	0.574	0.9140
								1035	0.556	0.9402
								1041	0.576	0.9576
								1051	0.608	0.9881
								1101	0.660	1.0208
								1107	0.678	1.0414
								1110	0.678	1.0519
								1113	0.660	1.0622
								1116	0.631	1.0722
								1121	0.576	1.0877
								1126	0.525	1.1019
								1131	0.479	1.1149
								1136	0.434	1.1266
								1141	0.402	1.1373
								1146	0.375	1.1474
								1151	0.347	1.1567
								1201	0.304	1.1734
								1211	0.265	1.1881
								1221	0.245	1.2012
								1231	0.229	1.2134
								1241	0.216	1.2249
								1301	0.213	1.2470
								1306	0.210	1.2524
								1316	0.192	1.2628

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.308952.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED SW-20					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day
								Rate (cfs)
								Acc. (inches)
EVENT OF JANUARY 25, 1973 (CONTINUED)								
							1-25	
							1321	0.198
							1331	0.227
							1336	0.250
							1341	0.260
							1346	0.260
							1356	0.248
							1411	0.227
							1421	0.209
							1431	0.199
							1441	0.203
							1501	0.223
							1511	0.220
							1521	0.200
							1536	0.174
							1546	0.152
							1556	0.133
							1606	0.118
							1616	0.107
							1626	0.095
							1636	0.087
							1656	0.083
							1756	0.066
							1856	0.053
							1956	0.033
							2056	0.022
							2156	0.015
							2256	0.010
							2400	0.006

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.308952.



RIESEL (WACO), TEXAS WATERSHED Y-13

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 36 sec. N.; Long. 96 deg. 52 min. 39 sec. W.

AREA: 11.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								RIESEL (WACO), TEXAS WATERSHED Y-13											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	4.95	1.44	5.27	5.24	3.99	7.56	2.46	0.33	3.41	8.79	1.12	1.24	45.80					
	Q	0.785	0.000	1.752	2.003	1.170	3.976	0.0	0.0	0.0	0.680	0.0	0.0	10.367					
STA AV	P	1.82	2.28	2.97	3.44	2.57	2.62	3.30	2.21	3.30	5.57	2.13	2.98	35.19					
	Q	0.160	0.196	1.078	0.644	0.321	0.800	0.113	0.024	0.0	0.302	0.016	0.116	3.773					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	3.936	6- 3	2.319	6- 3	2.558	6- 3	2.597	6- 3	2.599	6- 3	2.599	6- 1	3.212	5-29	3.974		
MAXIMUMS FOR PERIOD OF RECORD																			
		6- 3	3.936	6- 3	2.319	6- 3	2.558	6- 3	2.597	6- 3	2.599	6- 3	2.599	6- 1	3.212	5-29	3.974		
		1973		1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: 96% sorghum; 4% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.037-5. Precipitation and runoff records began January 1, 1969. Precipitation data obtained from rain gage 70-A. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)													
RIESEL (WACO), TEXAS WATERSHED Y-13													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.10E	0.0	1.01	0.0	0.0	2.51	0.0	0.0	0.0	1.37	0.0	0.0	
2	0.58	0.0	0.0	0.41	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.66	0.0	0.0	0.0	0.0	3.15	0.0	0.0	0.0	0.0	0.0	0.0	0.28
4	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.35	1.00	0.0	0.0	0.31	0.0	0.0	0.0	
6	0.20	0.0	0.20	0.24	0.53	0.0	1.62	0.0	0.64	0.86	0.0	0.0	
7	0.36	0.42	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	
8	0.0	0.16	0.0	0.18	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.46	0.0	0.0	0.05E	0.0	0.0	0.0	0.32	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	2.68	0.0	0.0	
12	0.20S	0.0	0.0	0.0	0.0	0.19	0.25	0.0	0.0	0.15	0.0	0.0	
13	0.0	0.0	0.02E	0.0	0.02E	0.04E	0.0	0.0	0.0	0.82	0.0	0.0	
14	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	
15	0.0	0.0	0.27	0.75	0.0	0.0	0.22	0.0	0.0	0.61	0.0	0.0	
16	0.0	0.0	0.57	0.0	0.0	0.0	0.32	0.0	0.0	0.24	0.0	0.0	
17	0.0	0.21	0.0	0.60	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.01E	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.88	
20	0.23	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.35	0.0	
21	0.0	0.22	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.43	0.0	0.11E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.55	0.02E	0.0	0.0	0.0	0.06E	0.0	0.29	0.08E	
24	0.03	0.0	2.41	1.87	0.0	0.0	0.0	0.0	0.0	0.0	0.10E	0.0	
25	2.10	0.0	0.0	0.04E	3.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.78	0.04E	0.10E	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.52	0.0	0.0	
31	0.46	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	
TOTAL	4.95	1.44	5.27	5.24	3.99	7.56	2.46	0.33	3.41	8.79	1.12	1.24	
STA AV	1.82	2.28	2.97	3.44	2.57	2.62	3.30	2.21	3.30	5.57	2.13	2.98	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage 70-A. Records began January 1, 1969. STA AV based on 5 yr (1969-73) record period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-13												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.120	0.0	0.0	0.347	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.004	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
3	0.011	0.0	0.0 T	0.0	0.0	1.234	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.306	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.037	0.001	0.0	0.0	0.0	0.0	0.0	0.0
7	0.017	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.063	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.106	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.052	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0
16	0.0	0.0	0.011	0.001	0.0	0.0	0.0	0.0	0.0	0.136	0.0	0.0
17	0.0	0.0	0.0	0.101	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.068	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.633	0.766	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.343	0.0	0.0	0.001	0.512	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0 T	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0
31	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
MEAN	0.0120	0.0	0.0268	0.0317	0.0179	0.0629	0.0	0.0	0.0	0.0104	0.0	0.0
INCHES	0.785	0.000	1.752	2.003	1.170	3.976	0.0	0.0	0.0	0.680	0.0	0.0
STA AV	0.160	0.196	1.078	0.644	0.321	0.800	0.113	0.024	0.0	0.302	0.016	0.118

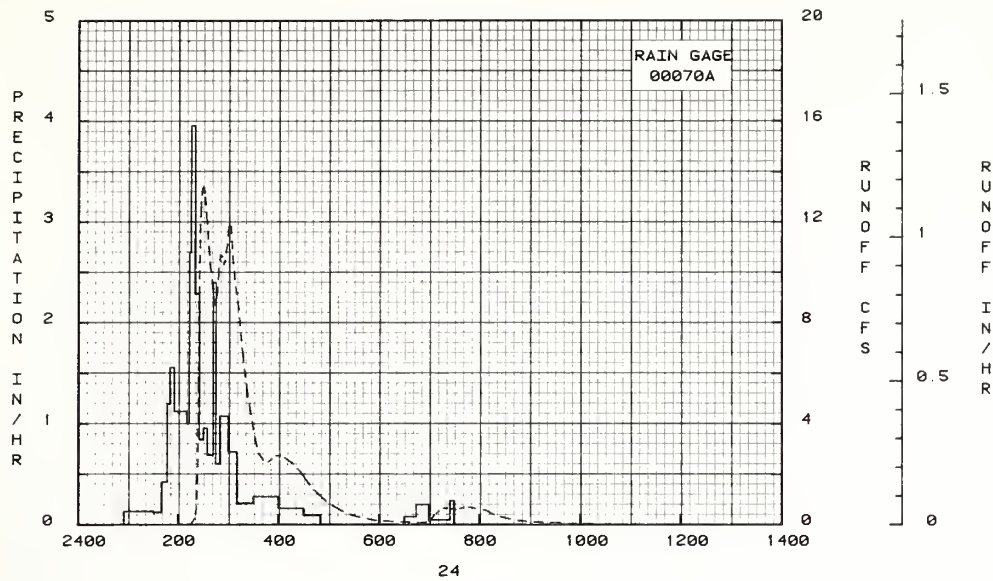
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.106341. Records began January 1, 1969.
STA AV based on 5 yr (1969-73) record period.

1973 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-13											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 24, 1973											
RG 00070A			RG 00070A								
3-24	0.0	0.0	3-24	55	0.0	0.0	3-24	213	0.0	0.0	
				130	0.1371	0.08		214	0.003	0.0	
				140	0.1200	0.10		215	0.025	0.0000	
				147	0.4286	0.15		216	0.061	0.0001	
				150	1.2000	0.21		217	0.100	0.0002	
WATERSHED CONDITIONS:				155	1.5600	0.34		218	0.137	0.0004	
96% sorghum; 4% Bermuda-				210	1.1200	0.62		219	0.199	0.0006	
grass waterway, good cover.				213	1.0000	0.67		220	0.264	0.0010	
				215	2.7000	0.76		221	0.415	0.0014	
				220	3.9600	1.09		222	0.753	0.0023	
				225	2.2800	1.28		223	1.705	0.0041	
				230	0.8400	1.35		224	5.541	0.0094	
				235	0.9600	1.43		225	9.787	0.0206	
				242	0.6857	1.51		226	11.920	0.0364	
				245	2.4000	1.63		227	12.771	0.0546	
				250	0.6000	1.68		228	13.157	0.0735	
				300	1.0800	1.86		229	13.370	0.0928	
				310	0.7200	1.98		230	13.442	0.1127	
				330	0.2100	2.05		231	13.157	0.1320	
				400	0.2800	2.19		232	12.980	0.1511	
				430	0.1600	2.27		234	11.920	0.1876	
				450	0.0900	2.30		236	10.978	0.2210	
				630	0.0	2.30		238	10.296	0.2522	
				645	0.0800	2.32		240	9.640	0.2813	
				700	0.2000	2.37		242	9.012	0.3086	
				725	0.0480	2.39		244	8.707	0.3345	
				730	0.2400	2.41		246	9.124	0.3606	
								248	10.175	0.3888	
								250	10.696	0.4194	
								252	10.634	0.4505	

NOTES: To convert runoff in CFS to IN/HH, multiply by .087764.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-13					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day (cfs)
Acc. (inches)								
EVENT OF MARCH 24, 1973 (CONTINUED)								
				3-24			254	10.296
							256	10.479
							258	11.137
							300	11.820
							302	11.853
							304	10.947
							307	9.728
							312	8.490
							317	6.753
							322	5.357
							327	4.367
							332	3.398
							337	2.781
							342	2.568
							347	2.495
							352	2.617
							357	2.743
							402	2.743
							407	2.667
							417	2.423
							427	2.061
							437	1.583
							447	1.225
							457	0.928
							507	0.707
							517	0.521
							527	0.383
							537	0.306
							547	0.228
							557	0.166
							607	0.137
							617	0.115
							637	0.088
							652	0.075
							657	0.102
							700	0.146
							702	0.208
							704	0.293
							706	0.383
							709	0.466
							712	0.549
							717	0.657
							722	0.662
							727	0.630
							732	0.604
							737	0.646
							742	0.707
							747	0.707
							807	0.584
							817	0.411
							827	0.313
							837	0.219
							847	0.164
							907	0.107
							937	0.064
							1007	0.040
							1037	0.023
							1107	0.017
							1207	0.008
							1307	0.005
							1407	0.003
							1507	0.001
							1607	0.0
							1707	0.0

NOTES: To convert runoff in CPS to IN/HR, multiply by .087764.



EVENT OF MARCH 24, 1973
RIESEL (WACO), TEXAS WATERSHED Y-13

RIESEL (WACO), TEXAS WATERSHED Y-14

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 28 min. 11 sec. N.; Long. 96 deg. 52 min. 55 sec. W.

AREA: 5.60 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED Y-14	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	4.68	1.50	5.44	5.43	4.00	7.77	3.35	0.44	3.65	8.88	1.14	1.19	47.46	
	Q	0.852	0.004	1.413	1.415	3.681	4.175	0.0	0.0	0.0	3.322	0.0	0.0	14.861	
STA AV	P	1.78	2.23	3.01	3.50	2.66	2.87	3.32	2.54	3.24	5.58	2.04	2.89	35.65	
	Q	0.202	0.084	0.826	0.385	0.762	0.837	0.608	0.136	0.0	1.203	0.366	0.762	6.171	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	1.903	6- 3	1.500	6- 3	2.049	6- 3	2.216	6- 3	2.220	6- 3	2.220	6- 1	3.017
MAXIMUMS FOR PERIOD OF RECORD															
		11-17	2.886	6- 3	1.500	6- 3	2.049	6- 3	2.216	6- 3	2.220	12- 8	2.633	6- 1	3.017
		1971		1973		1973		1973		1973		1971		1973	

NOTES: Watershed conditions: 96% oats; 4% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.038-5. Precipitation and runoff records began January 1, 1969. Precipitation data from Thiessen weighted method using rain gages 75-A and 89. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED Y-14	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.04E	0.0	1.12	0.0	0.0	2.37	0.0	0.0	0.0	1.58	0.0	0.0			
2	0.58	0.0	0.0	0.43	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.59	0.0	0.0	0.0	0.0	3.21	0.0	0.0	0.0	0.0	0.0	0.0			0.25
4	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	0.0			0.0
5	0.0	0.0	0.0	0.0	0.33	1.30	0.0	0.0	0.25	0.0	0.0	0.0			0.0
6	0.20	0.0	0.22	0.24	0.53	0.0	2.02	0.0	0.76	0.82	0.0	0.0			0.0
7	0.35	0.41	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0			0.0
8	0.0	0.17	0.0	0.22	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0			0.0
9	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
10	0.0	0.0	0.47	0.0	0.0	0.05E	0.0	0.0	0.0	0.35	0.0	0.0			0.0
11	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	2.55	0.0	0.0			0.0
12	0.10S	0.0	0.0	0.0	0.0	0.22	0.82	0.0	0.0	0.17	0.0	0.0			0.0
13	0.0	0.0	0.00E	0.0	0.03E	0.01E	0.0	0.0	0.0	0.82	0.0	0.0			0.0
14	0.0	0.0	0.0	0.34	0.0	0.04E	0.0	0.0	0.0	0.15	0.0	0.0			0.0
15	0.0	0.0	0.21	0.71	0.0 E	0.0	0.20	0.0	0.0	0.58	0.0	0.0			0.0
16	0.0	0.0	0.58	0.0	0.0	0.0	0.23	0.0	0.0	0.30	0.0	0.0			0.0
17	0.0	0.22	0.0	0.63	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0			0.0
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
19	0.0	0.0	0.01E	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.84			0.0
20	0.22	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.35	0.0			0.0
21	0.0	0.21	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
22	0.0	0.42	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
23	0.0	0.06E	0.0	0.50	0.00E	0.0	0.0	0.0	0.08E	0.0	0.36	0.10E			0.0
24	0.02	0.0	2.53	2.07	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0			0.0
25	2.05	0.0	0.0	0.06E	3.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0			0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.97	0.05E	0.07E	0.0			0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0			0.0
28	0.0	0.0	0.0	0.0	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0			0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0			0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.47	0.0	0.0			0.0
31	0.49		0.0		0.0		0.0 E	0.0		0.0		0.0			0.0
TOTAL	4.68	1.50	5.44	5.43	4.00	7.77	3.35	0.44	3.65	8.88	1.14	1.19			
STA AV	1.78	2.23	3.01	3.50	2.66	2.87	3.32	2.54	3.24	5.58	2.04	2.89			

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are Thiessen weighted average of rain gages 75A and 89. Records began January 1, 1969. STA AV based on 5 yr (1969-73) record period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED Y-14												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.110	0.0	0.0	0.274	0.0	0.0	0.0	0.023	0.0	0.0
2	0.0	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
3	0.009	0.0	0.0	0.0	0.0	0.522	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.185	0.0	0.0	0.0	0.0	0.0	0.0
6	0.006	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.027	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.330	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.041	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.155	0.0	0.0
14	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.032	0.0	0.0
15	0.0 T	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.048	0.0	0.0
16	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.084	0.0	0.0
17	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.022	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.213	0.326	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.184	0.0	0.0	0.0	0.663	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0 T	0.0	0.0	0.0	0.054	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.033	0.0	0.0	0.0	0.0	0.008	0.0	0.0
31	0.001	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.001	0.0	0.0
MEAN	0.0065	0.0	0.0107	0.0111	0.0279	0.0327	0.0	0.0	0.0	0.0252	0.0	0.0
INCHES	0.852	0.004	1.413	1.415	3.681	4.175	0.0	0.0	0.0	3.322	0.0	0.0
STA AV	0.202	0.084	0.826	0.385	0.762	0.837	0.608	0.136	0.0	1.203	0.366	0.762

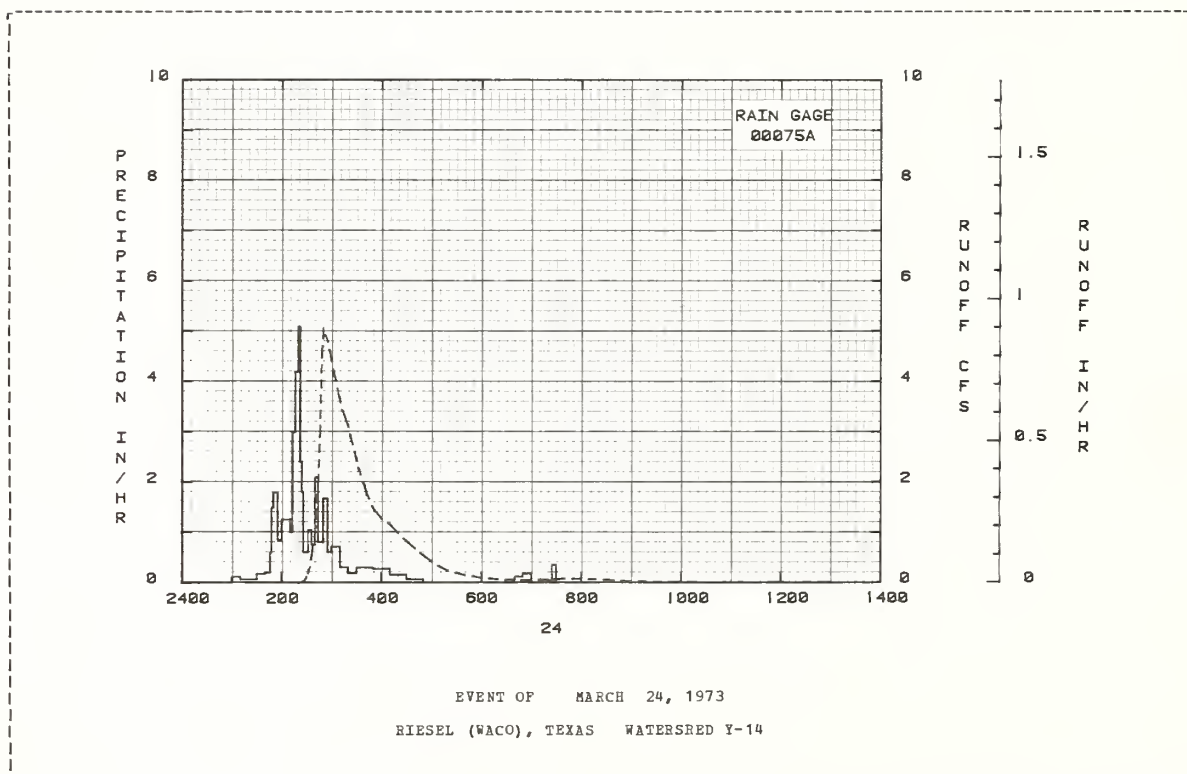
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 4.250295. Records began January 1, 1969.
STA AV based on 5 yr (1969-73) record period.

1973 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED Y-14										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973										
EG 00075A										
3-24	0.01	0.0	3-24	100	0.0	0.0	3-24	220	0.0	0.0
				110	0.1200	0.02		222	0.002	0.0000
				130	0.0600	0.04		224	0.009	0.0000
				140	0.1800	0.07		226	0.028	0.0001
				146	0.2000	0.09		228	0.061	0.0004
WATERSHED CONDITIONS:				148	0.6000	0.11		230	0.118	0.0009
96% oats; 4% Bermudagrass				150	1.5000	0.16		232	0.188	0.0018
waterway, good cover.				155	1.8000	0.31		234	0.315	0.0033
				200	0.8400	0.38		236	0.526	0.0058
				210	1.2600	0.59		238	0.762	0.0096
				213	1.0000	0.64		240	0.983	0.0147
				216	3.0000	0.79		242	1.460	0.0220
				220	4.2000	1.07		244	2.001	0.0322
				222	5.1000	1.24		246	2.980	0.0469
				224	2.4000	1.32		248	4.556	0.0691
				226	1.8000	1.38		250	5.072	0.0976
				232	0.6000	1.44		255	4.781	0.1702
				236	1.0500	1.51		300	4.392	0.2380
				240	0.7500	1.56		305	4.006	0.2999
				244	2.1000	1.70		310	3.577	0.3558
				250	0.8000	1.78		315	3.321	0.4068
				255	1.6800	1.92		320	3.092	0.4541
				300	0.6000	1.97		325	2.739	0.4971
				305	0.7200	2.03		330	2.425	0.5353
				310	0.7200	2.09		335	2.144	0.5690
				320	0.3000	2.14		340	1.874	0.5986
				330	0.1800	2.17		345	1.664	0.6247
				350	0.3000	2.27		350	1.469	0.6478
				410	0.2700	2.36		400	1.264	0.6882
				430	0.1500	2.41		410	1.145	0.7237

NOTES: To convert runoff in CFS to IN/HR, multiply by .177096.

1973	SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED Y-14						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
			3-24	450	0.0600	2.43	3-24	420	0.983	0.7551
				630	0.0	2.43		430	0.824	0.7818
				640	0.0600	2.44		440	0.670	0.8038
				650	0.1200	2.46		450	0.540	0.8217
				700	0.1800	2.49		500	0.414	0.8358
				710	0.0	2.49		510	0.311	0.8465
				725	0.0400	2.50		520	0.226	0.8544
				730	0.3600	2.53		530	0.188	0.8605
								540	0.143	0.8654
								550	0.116	0.8692
								600	0.087	0.8722
								610	0.076	0.8746
								620	0.059	0.8766
								630	0.049	0.8782
								650	0.041	0.8809
								700	0.051	0.8822
								710	0.063	0.8839
								730	0.063	0.8876
								740	0.082	0.8898
								800	0.069	0.8942
								830	0.047	0.8994
								900	0.025	0.9026
								1000	0.008	0.9055
								1100	0.002	0.9064
								1200	0.0	0.9066
								1300	0.0	0.9066

NOTES: To convert runoff in CFS to IN/HR, multiply by .177096.



RIESEL (WACO), TEXAS WATERSHED W-12

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 56 sec. N.; 96 deg. 53 min. 07 sec. W.

AREA: 9.90 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						RIESEL (WACO), TEXAS WATERSHED W-12													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	4.87	1.47	5.44	5.12	3.85	7.65	3.60	0.44	3.80	9.11	1.11	1.23	47.69					
	Q	0.384	0.000	0.695	1.302	1.060	3.438	0.886	0.0	0.0	1.773	0.0	0.008	9.545					
STA AV	P	2.02	2.08	2.77	3.22	2.91	3.54	4.16	2.50	3.68	5.62	2.05	2.92	37.45					
	Q	0.114	0.034	0.611	0.355	0.265	0.877	0.356	0.093	0.028	0.710	0.470	0.725	4.637					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	2.862	6- 3	1.675	6- 3	1.867	6- 3	1.893	6- 3	1.894	6- 2	1.894	6- 1	2.590	5-28	3.437		
MAXIMUMS FOR PERIOD OF RECORD																			
		6- 3	2.862	6- 3	1.675	11-17	2.018	11-17	2.209	11-17	2.244	12- 8	2.637	12- 8	2.734	5-28	3.437		
		1973		1973		1971		1971		1971		1971		1971		1973			

NOTES: Watershed conditions: 97% cotton; 3% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.039-3. Precipitation and runoff records began October 1, 1969, part year records are included in STA AV. Precipitation data obtained from rain gage W1B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches) RIESEL (WACO), TEXAS WATERSHED W-12													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.05E	0.0	1.09	0.0	0.0	2.34	0.0	0.0	0.0	1.76	0.0	0.0	
2	0.62	0.0	0.0	0.44	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.57	0.0	0.0	0.0	0.0	3.02	0.0	0.0	0.0	0.0	0.0	0.26	
4	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.28	1.31	0.0	0.0	0.33	0.0	0.0	0.0	
6	0.19	0.0	0.24	0.24	0.54	0.0	2.09	0.0	0.79	0.92	0.0	0.0	
7	0.39	0.39	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	
8	0.0	0.18	0.0	0.18	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.49	0.0	0.0	0.08E	0.0	0.0	0.0	0.42	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	2.55	0.0	0.0	
12	0.16S	0.0	0.0	0.0	0.0	0.28	1.07	0.0	0.0	0.18	0.0	0.0	
13	0.0	0.0	0.03E	0.0	0.02E	0.0	0.0	0.0	0.0	0.89	0.0	0.0	
14	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	
15	0.0	0.0	0.21	0.66	0.0 E	0.0	0.18	0.0	0.0	0.57	0.0	0.0	
16	0.0	0.0	0.64	0.0	0.0	0.0	0.17	0.0	0.0	0.29	0.0	0.0	
17	0.0	0.22	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.01E	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.85	
20	0.22	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.34	0.0	
21	0.0	0.24	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.39	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.05E	0.0	0.46	0.05E	0.0	0.0	0.0	0.09E	0.0	0.34	0.12E	
24	0.04	0.0	2.48	1.96	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0	
25	2.12	0.0	0.0	0.06E	2.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.98	0.03E	0.08E	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0		0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.37	0.0	0.0	
31	0.48		0.0		0.0		0.0 E	0.0		0.0		0.0	
TOTAL	4.87	1.47	5.44	5.12	3.85	7.65	3.60	0.44	3.80	9.11	1.11	1.23	
STA AV	2.02	2.08	2.77	3.22	2.91	3.54	4.16	2.50	3.68	5.62	2.05	2.92	

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W1B. Records began October 1, 1969. STA AV based on 5 yr (1969-73) record period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-12												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.016	0.0	0.0	0.340	0.0	0.0	0.0	0.028	0.0	0.0
2	0.0	0.0	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0
3	0.005	0.0	0.0	0.0	0.0	0.788	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.302	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.002	0.0 T	0.224	0.0	0.0	0.007	0.0	0.0
7	0.002	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
8	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.606	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.145	0.0	0.0	0.001	0.0	0.0
13	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.069	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
16	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.008	0.0	0.0
17	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.269	0.510	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.151	0.0	0.0	0.0 T	0.435	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0 T	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.0	0.0
31	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0
MEAN	0.0052	0.0	0.0093	0.0181	0.0142	0.0477	0.0119	0.0	0.0	0.0238	0.0	0.0001
INCHES	0.384	0.000	0.695	1.302	1.060	3.438	0.886	0.0	0.0	1.773	0.0	0.008
STA AV	0.114	0.034	0.611	0.355	0.265	0.877	0.356	0.093	0.028	0.710	0.470	0.725

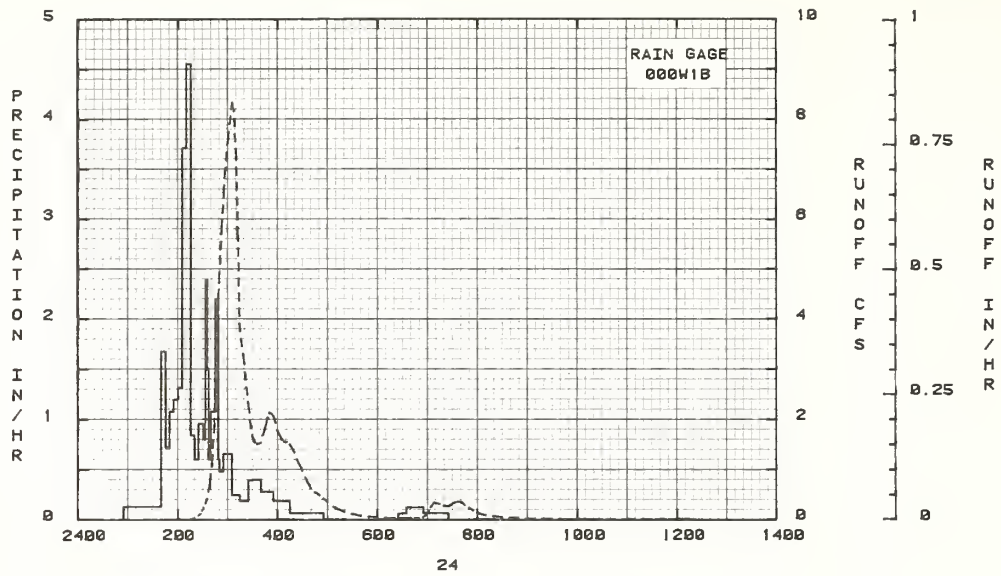
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.404207. STA AV based on 5 yr (1969-73) record period.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-12									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MARCH 24, 1973												
RG 000W1H			RG 000W1E									
3-24	0.0	0.0	3-24	55	0.0	0.0	3-24	205	0.0	0.0		
				140	0.1333	0.10		210	0.001	0.0		
				145	1.6800	0.24		215	0.008	0.0000		
				150	0.7200	0.30		220	0.035	0.0002		
				155	1.0800	0.39		225	0.089	0.0007		
WATERSHED CONDITIONS: 97% cotton; 3% Bermuda grass waterway, good cover.				200	1.2000	0.49		227	0.124	0.0011		
				205	1.3200	0.60		229	0.176	0.0016		
				210	3.7200	0.91		231	0.243	0.0023		
				215	4.5600	1.29		233	0.326	0.0032		
				220	0.8400	1.36		235	0.421	0.0045		
				225	0.6000	1.41		238	0.672	0.0072		
				230	0.9600	1.49		240	0.916	0.0099		
				233	0.8000	1.53		242	1.295	0.0136		
				235	2.4000	1.61		244	1.874	0.0188		
				237	1.5000	1.66		245	3.034	0.0230		
				240	0.6000	1.69		248	4.278	0.0412		
				245	1.0800	1.78		250	4.963	0.0567		
				248	2.2000	1.89		253	5.992	0.0842		
				250	0.6000	1.91		255	6.553	0.1050		
				255	0.4800	1.95		257	7.048	0.1278		
				305	0.6600	2.06		300	7.617	0.1646		
	315	0.2400	2.10		305	8.347	0.2311					
	325	0.1800	2.13		307	8.160	0.2586					
	340	0.4000	2.23		310	7.194	0.2971					
	355	0.2800	2.30		312	5.713	0.3187					
	415	0.1800	2.36		314	3.900	0.3347					
	425	0.0600	2.37		317	3.450	0.3531					
	455	0.0600	2.40		320	3.092	0.3695					
	625	0.0	2.40		325	2.276	0.3919					
	635	0.0600	2.41		328	1.834	0.4022					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.100175.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED W-12							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
			3-24	655	0.1200	2.45	3-24	330	1.651	0.4080
				725	0.0600	2.48		333	1.541	0.4160
								336	1.506	0.4236
								340	1.541	0.4338
								345	1.824	0.4479
								348	2.050	0.4575
								350	2.136	0.4646
								353	2.114	0.4752
								355	2.071	0.4822
								400	1.785	0.4983
								405	1.587	0.5124
								408	1.559	0.5202
								411	1.550	0.5280
								415	1.497	0.5382
								420	1.336	0.5500
								425	1.125	0.5603
								430	0.970	0.5690
								435	0.774	0.5763
								440	0.619	0.5821
								445	0.545	0.5870
								450	0.476	0.5913
								455	0.409	0.5949
								500	0.351	0.5981
								510	0.223	0.6029
								520	0.151	0.6060
								530	0.105	0.6082
								540	0.074	0.6097
								600	0.039	0.6116
								620	0.025	0.6126
								630	0.021	0.6130
								640	0.018	0.6133
								645	0.016	0.6135
								650	0.022	0.6136
								655	0.048	0.6139
								658	0.087	0.6143
								700	0.128	0.6146
								702	0.179	0.6151
								704	0.246	0.6158
								706	0.289	0.6167
								708	0.326	0.6178
								715	0.299	0.6214
								720	0.270	0.6238
								724	0.261	0.6256
								727	0.279	0.6269
								730	0.312	0.6284
								733	0.344	0.6300
								737	0.355	0.6324
								740	0.348	0.6341
								745	0.283	0.6368
								750	0.228	0.6389
								755	0.171	0.6405
								800	0.134	0.6418
								810	0.085	0.6437
								820	0.058	0.6448
								830	0.038	0.6456
								840	0.027	0.6462
								900	0.012	0.6468
								920	0.006	0.6471
								1000	0.002	0.6474
								1100	0.0	0.6475
								1215	0.0	0.6475

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.100175.



EVENT OF MARCH 24, 1973
RIESEL (WACO), TEXAS WATERSHED W-12

RIESEL (WACO), TEXAS WATERSHED W-13

LOCATION: Falls County, Texas; 18 miles southeast of Waco; Brazos River Basin. Lat. 31 deg. 27 min. 57 sec. N.; Long. 96 deg. 53 min. 08 sec. W.

AREA: 11.30 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														RIESEL (WACO), TEXAS WATERSHED W-13																					
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual																					
1973	P	4.87	1.47	5.44	5.12	3.85	7.65	3.60	0.44	3.80	9.11	1.11	1.23	47.69																					
	Q	0.435	0.000	0.918	1.286	1.823	3.547	1.108	0.0	0.0	1.374	0.0	0.015	10.505																					
STA AV	P	2.02	2.08	2.77	3.22	2.91	3.54	4.16	2.50	3.68	5.62	2.05	2.92	37.45																					
	Q	0.122	0.029	0.574	0.370	0.456	0.896	0.345	0.052	0.050	0.532	0.417	0.695	4.537																					
ANNUAL MAXIMOM DISCHARGE (in/hr) AND MAXIMUM VOLOMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval																											
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.				
1973		7- 6	3.317	6- 3	1.669	6- 3	1.930	6- 3	1.983	6- 3	1.984	6- 3	1.984	6- 3	1.984	6- 1	2.651	5-29	3.546																
MAXIMUMS FOR PERIOD OF RECORD																																			
		7- 6	3.317	6- 3	1.669	6- 3	1.930	11-17	1.995	12- 9	2.247	12- 8	2.825	12- 8	2.973	5-29	3.546																		
		1973		1973		1973		1971		1971		1971		1971		1971		1973																	

NOTES: Watershed conditions: 97% cotton; 3% grassed waterway. Cropland planted on graded furrows. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 42.040-3. Precipitation and runoff records began October 1, 1969, part year records are included in STA AV. Precipitation data obtained from rain gage W1B. For long-time precipitation records, see National Weather Service records at Waco, Texas.

1973 DAILY PRECIPITATION (inches)														RIESEL (WACO), TEXAS WATERSHED W-13													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.05E	0.0	1.09	0.0	0.0	2.34	0.0	0.0	0.0	1.76	0.0	0.0															
2	0.62	0.0	0.0	0.44	0.07Z	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
3	0.57	0.0	0.0	0.0	0.0	3.02	0.0	0.0	0.0	0.0	0.0	0.26															
4	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.07E	0.0	0.0															
5	0.0	0.0	0.0	0.0	0.28	1.31	0.0	0.0	0.33	0.0	0.0	0.0															
6	0.19	0.0	0.24	0.24	0.54	0.0	2.09	0.0	0.79	0.82	0.0	0.0															
7	0.39	0.39	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0															
8	0.0	0.18	0.0	0.18	0.0	0.0	0.09E	0.0	0.0	0.0	0.0	0.0															
9	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
10	0.0	0.0	0.49	0.0	0.0	0.08E	0.0	0.0	0.0	0.42	0.0	0.0															
11	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	2.55	0.0	0.0															
12	0.16S	0.0	0.0	0.0	0.0	0.28	1.07	0.0	0.0	0.18	0.0	0.0															
13	0.0	0.0	0.03E	0.0	0.02E	0.0	0.0	0.0	0.0	0.89	0.0	0.0															
14	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0															
15	0.0	0.0	0.21	0.66	0.0 E	0.0	0.18	0.0	0.0	0.57	0.0	0.0															
16	0.0	0.0	0.64	0.0	0.0	0.0	0.17	0.0	0.0	0.29	0.0	0.0															
17	0.0	0.22	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
18	0.03E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
19	0.0	0.0	0.01E	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.85															
20	0.22	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.34	0.0															
21	0.0	0.24	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.39	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
23	0.0	0.05E	0.0	0.46	0.05E	0.0	0.0	0.0	0.09E	0.0	0.34	0.12E															
24	0.04	0.0	2.48	1.96	0.0	0.0	0.0	0.0	0.0	0.0	0.05E	0.0															
25	2.12	0.0	0.0	0.06E	2.89	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.98	0.03E	0.08E	0.0															
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0															
28	0.0	0.0	0.0	0.0	0.0	0.04E	0.0	0.0	0.0	0.0	0.0	0.0															
29	0.0		0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0															
30	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.37	0.0	0.0															
31	0.48		0.0		0.0		0.0 E	0.0		0.0		0.0															
TOTAL	4.87	1.47	5.44	5.12	3.85	7.65	3.60	0.44	3.80	9.11	1.11	1.23															
STA AV	2.02	2.08	2.77	3.22	2.91	3.54	4.16	2.50	3.68	5.62	2.05	2.92															

NOTES: For daily air temperature in the vicinity, see table for Watershed C, p. 42.002-1. Precipitation values are from rain gage W1B. Records began October 1, 1969. STA AV based on 5 yr (1969-73) record period. Estimate codes may indicate that non-significant event totals are included.

1973 MEAN DAILY DISCHARGE (cfs) RIESEL (WACO), TEXAS WATERSHED W-13												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.064	0.0	0.0	0.409	0.0	0.0	0.0	0.029	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.0	0.0
3	0.006	0.0	0.0	0.0	0.0	0.942	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.332	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.237	0.0 T	0.316	0.0	0.0	0.009	0.0	0.0
7	0.002	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0
8	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.482	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.210	0.0	0.0	0.002	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
15	0.0	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0
16	0.0	0.0	0.003	0.0 T	0.0	0.0	0.0	0.0	0.0	0.036	0.0	0.0
17	0.0	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.364	0.555	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.196	0.0	0.0	0.002	0.603	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.001	0.0	0.0	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.0	0.0
31	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.010	0.0	0.0
MEAN	0.0067	0.0	0.0141	0.0203	0.0279	0.0561	0.0170	0.0	0.0	0.0210	0.0	0.0002
INCRS	0.435	0.000	0.918	1.286	1.823	3.547	1.108	0.0	0.0	1.374	0.0	0.015
STA AV	0.122	0.029	0.574	0.370	0.456	0.896	0.345	0.052	0.050	0.532	0.417	0.695

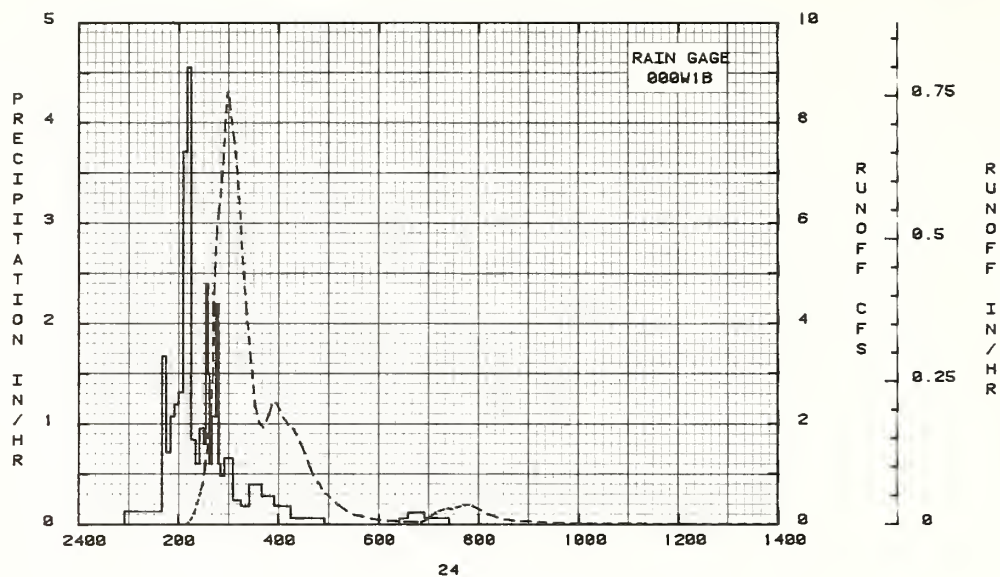
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 2.106341. Records began October 1, 1969. STA AV based on 5 yr (1969-73) record period.

1973 SELECTED RUNOFF EVENT RIESEL (WACO), TEXAS WATERSHED W-13											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 24, 1973											
RG 000W1B			RG 000W1B								
3-24	0.0	0.0	3-24	55	0.0	0.0	3-24	202	0.0	0.0	
				140	0.1333	0.10		204	0.0	0.0	
				145	1.6800	0.24		206	0.003	0.0	
				150	0.7200	0.30		208	0.010	0.0000	
				155	1.0800	0.39		210	0.024	0.0001	
WATERSHED CONDITIONS:				200	1.2000	0.49		212	0.051	0.0002	
97% cotton; 3% Bermuda grass				205	1.3200	0.60		214	0.101	0.0004	
waterway, good cover.				210	3.7200	0.91		216	0.153	0.0008	
				215	4.5600	1.29		218	0.226	0.0013	
				220	0.8400	1.36		220	0.305	0.0021	
				225	0.6000	1.41		222	0.409	0.0031	
				230	0.9600	1.49		224	0.505	0.0045	
				233	0.8000	1.53		225	0.582	0.0053	
				235	2.4000	1.61		226	0.640	0.0062	
				237	1.5000	1.66		227	0.700	0.0071	
				240	0.6000	1.69		229	0.849	0.0094	
				245	1.0800	1.78		231	1.031	0.0122	
				248	2.2000	1.89		233	1.282	0.0155	
				250	0.6000	1.91		235	1.577	0.0197	
				255	0.4800	1.95		237	1.950	0.0249	
				305	0.6600	2.06		239	2.233	0.0310	
				315	0.2400	2.10		241	2.966	0.0386	
				325	0.1800	2.13		242	4.290	0.0440	
				340	0.4000	2.23		243	4.807	0.0506	
				355	0.2800	2.30		244	5.219	0.0579	
				415	0.1800	2.36		245	5.526	0.0658	
				425	0.0600	2.37		246	5.953	0.0742	
				455	0.0600	2.40		248	6.241	0.0920	
				625	0.0	2.40		250	6.537	0.1107	
				635	0.0600	2.41		251	6.677	0.1203	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.087764.

1973 SELECTED RUNOFF EVENT			RIESEL (WACO), TEXAS WATERSHED #13							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 24, 1973 (CONTINUED)										
3-24				655	0.1200	2.45	3-24	252	6.890	0.1302
				725	0.0600	2.48		254	7.403	0.1512
								256	8.071	0.1737
								258	8.555	0.1981
								300	8.637	0.2234
								302	8.257	0.2480
								307	7.580	0.3058
								312	6.677	0.3581
								317	5.179	0.4014
								322	4.184	0.4356
								327	3.213	0.4627
								332	2.346	0.4830
								337	2.013	0.4989
								342	1.929	0.5134
								347	2.143	0.5283
								352	2.383	0.5448
								357	2.433	0.5624
								402	2.273	0.5796
								407	2.088	0.5956
								412	1.981	0.6105
								417	1.908	0.6247
								422	1.777	0.6381
								427	1.586	0.6505
								432	1.399	0.6614
								437	1.149	0.6707
								442	0.968	0.6784
								447	0.837	0.6850
								452	0.706	0.6907
								457	0.613	0.6955
								502	0.529	0.6997
								512	0.378	0.7063
								522	0.259	0.7110
								532	0.183	0.7142
								542	0.146	0.7166
								552	0.110	0.7185
								602	0.084	0.7199
								612	0.071	0.7210
								622	0.060	0.7220
								632	0.050	0.7228
								647	0.035	0.7237
								652	0.048	0.7240
								657	0.091	0.7245
								702	0.153	0.7254
								708	0.241	0.7271
								713	0.272	0.7290
								718	0.301	0.7311
								723	0.322	0.7334
								728	0.301	0.7357
								733	0.336	0.7380
								738	0.362	0.7405
								743	0.389	0.7433
								748	0.389	0.7461
								753	0.355	0.7489
								803	0.268	0.7534
								813	0.186	0.7567
								823	0.135	0.7591
								833	0.094	0.7607
								843	0.069	0.7619
								903	0.045	0.7636
								933	0.024	0.7651
								1003	0.013	0.7659
								1103	0.006	0.7668
								1203	0.003	0.7671
								1303	0.0	0.7673
								1400	0.0	0.7673

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.087764.



EVENT OF MARCH 24, 1973
 RIESEL (WACO), TEXAS WATERSHED W-13

OXFORD, MISSISSIPPI WATERSHED W-4C

LOCATION: Marshall Co., Miss.; 4.8 mi. SE of Holly Springs, on State Highway No. 4; Chews Creek, Pigeon Roost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 42 min. 28 sec. N.; Long. 89 deg. 29 min. 39 sec. W.

AREA: 1580.00 acres 2.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							OXFORD, MISSISSIPPI				WATERSHED W-4C						
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	6.97	3.93	12.22	9.60	7.19	0.70	3.74	1.64	1.05	2.55	9.15	4.18	62.92			
	Q	2.014	0.925	3.637	2.638	1.012	0.020	0.012	0.002	0.0	0.0	1.019	0.213	11.493			
STA AV	P	4.04	4.55	5.17	5.11	4.23	3.07	4.07	3.52	4.35	2.58	4.85	5.32	50.87			
	Q	0.675	0.954	0.974	0.782	0.316	0.110	0.252	0.194	0.284	0.102	0.598	0.767	6.010			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for 6 Hours		Selected Time Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		3-14	0.546	3-14	0.455	3-14	0.668	3-14	0.984	1-21	1.270	3-14	1.628	3-14	2.351	3- 9	2.668
MAXIMUMS FOR PERIOD OF RECORD																	
		2-23	0.840	2-23	0.720	2-23	1.130	3- 4	1.560	11- 6	1.686	1-31	2.380	1-30	3.340	1-27	3.900
		1962		1962		1962		1964		1972		1957		1957		1957	

NOTES: Watershed conditions: About 13% in cultivation (cotton, corn, soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 42% in pasture and idle land, good cover April to October with fair cover remainder of year; 44% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1973. Reported as Watershed W-4 prior to 1965 and from 1965-68 as Watershed W-4A; redesignated as W-4C (1969). Gaging station relocated upstream, Jan. 1965, reducing drainage area from 2,000 to 1,580 acres. About 32% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.1-4. Monthly precipitation Thiessen weighted from rain gages 7, 8 and 18. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 4N, Mississippi.

1973 DAILY AIR TEMPERATURE (degrees F)													OXFORD, MISSISSIPPI WATERSHED W-4C	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	43 28	70 47	66 41	58 44	74 62	85 62	91 72	85 64	89 70	82 62	71 38	70 37		
2	44 34	50 35	61 49	73 45	80 60	87 68	93 72	82 56	85 72	90 60	75 52	70 40		
3	57 38	52 31	66 44	70 46	66 48	88 70	94 70	85 55	90 64	90 64	66 57	72 53		
4	50 32	63 30	71 50	53 41	70 44	86 72	92 72	88 56	91 64	91 65	70 56	63 47		
5	40 32	70 49	73 43	58 36	74 42	86 67	90 68	90 58	86 73	72 58	56 35	50 39		
6	33 28	62 41	73 58	67 37	65 57	83 61	90 64	92 60	77 73	83 55	58 32	45 30		
7	30 28	60 39	74 50	51 47	73 58	84 54	85 74	93 69	86 73	86 67	63 46	36 25		
8	28 26	44 24	78 49	67 43	75 59	86 64	90 71	94 70	92 74	82 66	60 54	44 28		
9	29 22	29 20	78 62	47 40	82 53	90 68	92 74	94 72	93 70	85 66	55 35	50 28		
10	29 18	38 20	70 60	50 30	87 64	93 67	94 72	90 72	87 70	86 65	50 29	40 25		
11	29 17	47 18	71 58	59 28	78 56	90 70	88 71	95 70	83 63	85 65	62 28	54 23		
12	36 17	49 34	78 45	75 47	73 52	88 72	87 56	90 73	89 58	84 66	67 37	66 42		
13	41 18	47 35	77 56	62 40	72 51	88 70	92 64	91 71	81 70	76 66	74 45	64 41		
14	53 30	48 37	73 60	74 43	71 47	88 71	92 70	88 67	82 67	76 58	76 56	50 36		
15	58 30	37 32	62 56	79 54	68 45	88 72	90 69	88 62	81 66	82 52	75 49	41 36		
16	66 30	35 22	57 40	68 59	76 42	90 73	77 72	90 60	86 60	70 52	59 36	36 24		
17	65 44	35 16	51 34	64 58	69 47	84 69	88 72	90 66	86 60	70 41	66 32	32 20		
18	63 50	49 23	60 30	71 60	74 42	91 68	91 69	90 66	68 50	77 36	58 48	50 28		
19	62 34	39 30	70 46	77 62	83 59	91 70	90 74	92 66	79 42	80 42	73 54	55 39		
20	62 34	50 28	66 42	80 64	79 58	90 66	93 74	94 66	80 56	82 45	70 58	39 22		
21	60 49	54 24	58 35	78 62	84 52	85 63	94 75	86 66	90 66	81 48	66 47	28 16		
22	52 38	50 22	66 30	69 64	83 64	87 60	93 75	86 56	92 63	83 42	72 46	50 19		
23	48 28	61 36	71 41	74 62	85 64	88 60	92 74	90 56	91 65	84 44	74 64	56 40		
24	59 24	67 28	66 49	66 61	80 59	94 62	94 73	91 68	90 69	84 48	78 64	44 56		
25	57 28	66 33	56 48	75 61	84 62	95 69	92 73	92 68	90 70	82 51	71 58	58 44		
26	50 43	62 39	59 48	62 50	84 64	94 68	91 73	94 66	84 68	82 52	72 64	46 41		
27	53 44	39 34	60 47	64 42	78 66	90 72	94 66	95 68	84 72	81 54	73 54	49 30		
28	47 31	60 25	73 48	66 39	70 63	87 64	96 65	94 68	84 71	61 42	54 38	55 30		
29	36 23		68 54	75 40	79 57	90 59	94 68	89 69	86 64	54 36	60 32	65 36		
30	51 22		70 56	78 58	80 61	85 71	84 72	86 68	87 66	65 34	68 41	43 23		
31	58 36		76 56		84 56		86 71	92 68		58 42		55 32		
AV.	48 31	51 30	68 48	67 49	77 55	88 67	91 70	90 65	86 66	79 53	66 46	51 33		
MEAN	39.5	40.9	57.8	57.9	66.1	77.6	80.6	77.7	75.7	66.0	56.3	42.1		
STA AV	47 28	52 31	60 38	72 50	80 57	86 64	89 68	89 67	82 60	73 48	62 38	51 31		

NOTES: Temperature data from National Weather Service at Holly Springs, 4N, Mississippi. STA AV is for 17 yr (1957-73) record period.

1973	DAILY PRECIPITATION (inches)						OXFORD, MISSISSIPPI WATERSHED W-4C						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.78	0.10	0.0	0.31	0.0	0.47	0.0	0.0	0.30	0.0	0.0	
2	0.0	0.0	1.07	0.0	1.05	0.0	0.60	0.0	0.0	0.0	0.0	0.0	
3	1.09	0.0	0.03	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.54	0.61	
5	0.44	0.0	0.32	0.0	0.0	0.33	0.01	0.0	0.59	0.0	0.06	0.0	
6	0.0	0.03	1.45	0.11	0.05	0.0	0.0	0.0	0.19	0.0	0.0	0.0	
7	0.44	0.82	0.0	0.69	1.25	0.0	0.07	0.0	0.11	0.73	0.0	0.0	
8	0.0	0.75	0.0	0.0	0.0	0.07	0.0	0.48	0.0	0.0	0.09	0.08	
9	0.0	0.0	0.0	0.25	0.0	0.07	0.61	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	1.04	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.08	0.0	0.45	0.01	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.04	0.0	0.0	0.0	0.02	0.0	0.17	0.0	0.0	0.0	0.0	
13	0.0	1.39	0.0	0.0	0.0	0.04	0.0	0.57	0.04	0.29	0.0	0.0	
14	0.0	0.12	2.61	0.0	0.0	0.0	0.0	0.41	0.0	0.17	0.0	0.0	
15	0.0	0.0	2.23	0.01	0.0	0.0	0.10	0.0	0.0	0.0	0.08	0.0	
16	0.0	0.0	0.52	1.14	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.34	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0	
19	0.0	0.0	0.08	2.38	0.40	0.0	0.13	0.0	0.0	0.0	0.0	0.58	
20	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.23	0.05	
21	3.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
22	0.0	0.0	0.0	1.01	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	1.59	1.16	0.0	0.46	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.95	0.75	0.0	0.0	0.0	0.0	0.0	0.0	0.17	1.75	
25	0.0	0.0	0.14	0.01	0.23	0.0	0.0	0.0	0.0	0.0	0.07	0.05	
26	0.84	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0	0.0	2.98	0.93	
27	0.20	0.0	0.0	0.0	1.72	0.06	0.0	0.0	0.03	0.11	3.59	0.0	
28	0.16	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.09	0.52	0.0	0.0	
29	0.0	0.0	0.55	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.54	0.0	0.01	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.33	0.0	0.0	0.0	0.48	0.01	0.0	0.28	0.0	0.13	
TOTAL	6.97	3.93	12.22	9.60	7.19	0.70	3.74	1.64	1.05	2.55	9.15	4.18	
STA AV	4.04	4.55	5.17	5.11	4.23	3.07	4.07	3.52	4.35	2.58	4.85	5.32	

NOTES: Daily precipitation values Thiessen weighted from rain gages 7, 8 and 18. STA AV based on 17 yr (1957-73) record period.

1973	MEAN DAILY DISCHARGE (cfs)						OXFORD, MISSISSIPPI WATERSHED W-4C						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.677	6.234	0.380	0.791	0.815	0.471	0.147	0.0	0.0	0.0	0.0	0.0	
2	0.677	0.688	3.908	0.574	2.242	0.380	0.653	0.0	0.0	0.0	0.0	0.0	
3	12.526	0.471	0.906	0.471	2.432	0.141	0.0	0.0	0.0	0.0	0.0	0.0	
4	1.425	0.471	0.906	0.471	0.471	0.0	0.0	0.0	0.0	0.0	0.0	0.656	
5	2.075	0.471	0.688	0.471	0.471	0.172	0.0	0.0	0.0	0.0	0.0	0.0	
6	1.607	0.471	20.222	0.471	0.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	1.159	1.158	15.001	1.122	10.066	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	1.159	20.101	0.906	0.574	1.170	0.136	0.0	0.0	0.0	0.0	0.0	0.0	
9	1.159	1.837	0.688	0.471	0.688	0.014	0.0	0.0	0.0	0.0	0.0	0.0	
10	1.159	1.115	4.282	0.471	0.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	1.032	0.918	13.306	0.471	1.959	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.424	0.404	0.918	0.471	0.688	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	15.722	0.574	0.471	0.471	0.0	0.0	0.060	0.0	0.0	0.0	0.0	
14	0.0	3.320	61.195	0.471	0.471	0.0	0.0	0.066	0.0	0.0	0.0	0.0	
15	0.040	0.918	70.394	0.471	0.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.288	0.857	26.562	2.733	0.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.677	0.574	0.906	2.906	0.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.779	0.677	0.906	5.710	0.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.677	0.677	0.906	47.430	0.751	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.483	0.574	0.906	19.854	0.918	0.0	0.0	0.0	0.0	0.0	0.670	0.0	
21	88.947	0.471	0.791	1.263	0.574	0.0	0.0	0.0	0.0	0.0	0.102	0.0	
22	3.165	0.471	0.677	10.033	0.438	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	1.297	0.471	0.677	48.409	9.263	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	1.159	0.471	3.497	16.823	0.907	0.0	0.0	0.0	0.0	0.0	0.0	3.054	
25	0.918	0.471	1.398	3.595	0.484	0.0	0.0	0.0	0.0	0.0	0.0	2.149	
26	5.115	0.471	0.688	2.890	0.688	0.0	0.0	0.0	0.0	0.0	11.954	8.062	
27	1.446	0.471	0.471	1.779	26.028	0.0	0.0	0.0	0.0	0.0	54.464	0.211	
28	1.102	0.471	0.574	1.159	0.953	0.0	0.0	0.0	0.0	0.0	0.480	0.0	
29	0.688		1.385	1.159	0.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.906		1.994	1.159	0.471	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.906		4.822		0.471		0.0	0.0	0.0	0.0		0.0	
MEAN	4.3120	2.1938	7.7881	5.8381	2.1674	0.0438	0.0258	0.0041	0.0	0.0	2.2557	0.4558	
INCHES	2.014	0.925	3.637	2.638	1.012	0.020	0.012	0.002	0.0	0.0	1.019	0.213	
STA AV	0.675	0.954	0.974	0.782	0.316	0.110	0.252	0.194	0.284	0.102	0.598	0.767	

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.01506. STA AV based on 17 yr (1957-73) record period. Quality of records: Good, estimated to be within 10% of actual.

1973 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI			WATERSHED W-4C		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
							Rate	Acc.
							(cfs)	(inches)
EVENT OF MARCH 14 - 16, 1973								
RG WTD003			RG WTD003					
3-14	0.12	0.004	3-14	1300	0.0	0.0	3-14	1250
				1315	0.7998	0.20		1300
				1530	0.0	0.20		1306
				1545	0.0	0.20		1332
				1600	0.2800	0.27		1346
				1615	0.0	0.27		1354
				1630	0.0	0.27		1414
				1645	0.0	0.27		1434
				1700	0.0400	0.28		1530
				1715	0.0800	0.30		1644
				1730	0.1200	0.33		1734
				1745	0.2800	0.40		1808
				1800	0.1600	0.44		1828
				1815	0.1600	0.48		1846
				1830	0.1593	0.52		1908
				1845	0.0400	0.53		1926
				1900	0.0800	0.55		1936
				1915	2.0400	1.06		1948
				1930	2.2000	1.61		2000
				1945	1.2400	1.92		2006
				2000	0.4400	2.03		2020
				2015	0.2800	2.10		2040
				2030	0.0	2.10		2100
				2045	0.0400	2.11		2122
				2100	0.2400	2.17		2158
				2115	0.0393	2.18		2236
				2145	0.0	2.18		2316
				2200	0.0400	2.19		2350
				2215	0.0400	2.20		2400
				2230	0.1200	2.23	3-15	10
				2245	0.1600	2.27		48
				2300	0.1600	2.31		132
				2315	0.0	2.31		154
				2330	0.2000	2.36		212
				2345	0.2800	2.43		256
			3-15	2400	0.2400	2.49		402
				15	0.2400	2.55		516
				30	0.0800	2.57		616
				100	0.0	2.57		732
				115	0.0800	2.59		902
				130	0.2800	2.66		922
				145	0.2400	2.72		942
				200	0.1200	2.75		958
				545	0.0	2.75		1018
				600	0.0	2.75		1048
				615	0.0800	2.77		1142
				630	0.0400	2.78		1224
				645	0.1200	2.81		1330
				700	0.0800	2.83		1434
				715	0.0	2.83		1528
				730	0.0400	2.84		1558
				745	0.0	2.84		1630
				815	0.0	2.84		1658
				830	0.0400	2.85		1710
				845	0.0800	2.87		1724
				900	0.2800	2.94		1744
				915	0.3200	3.02		1810
				930	0.3200	3.10		1858
				945	0.0400	3.11		2000
				1000	0.0400	3.12		2034
				1015	0.0400	3.13		2116
				1030	0.0	3.13		2148
				1300	0.0	3.13		2216
				1315	0.0400	3.14		2238
				1330	0.0800	3.16		2304
				1345	0.1600	3.20		2330
				1400	0.0	3.20		2344
				1415	0.0	3.20		2400
				1430	0.0800	3.22	3-16	32
				1445	0.0400	3.23		130

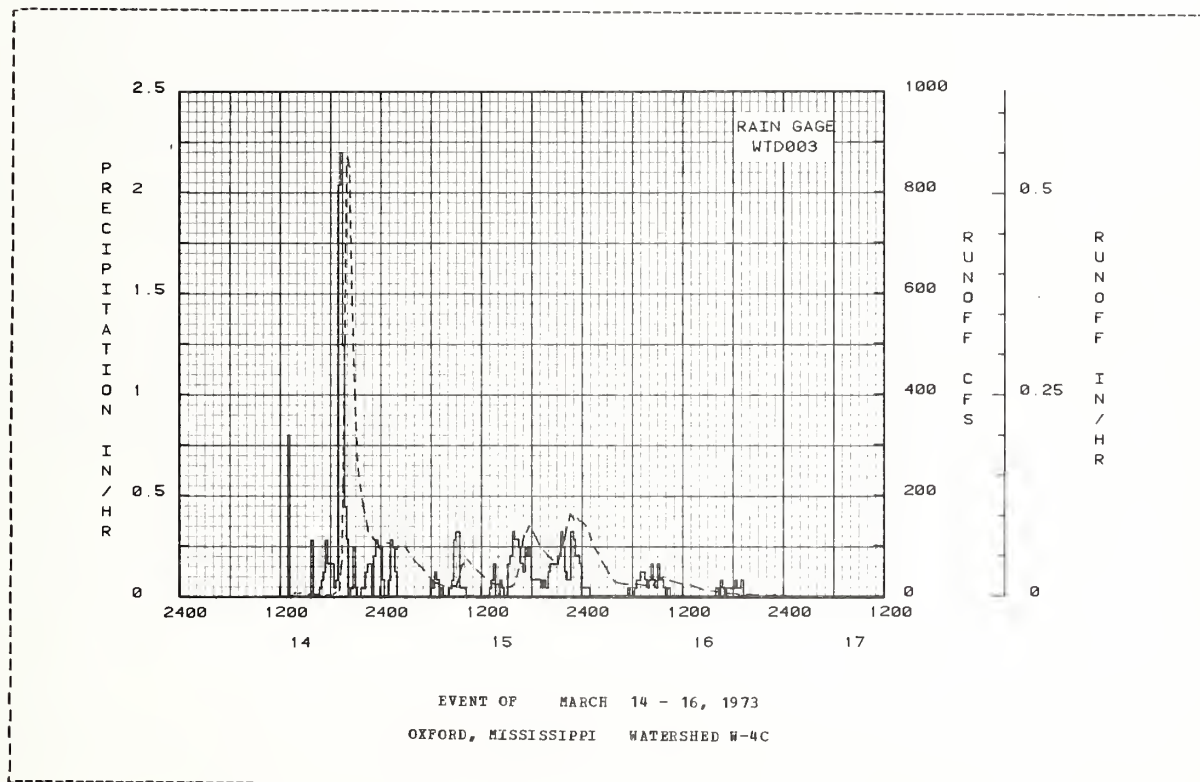
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000628. Thiessen weighted storm rainfall, rain gages 7, 8 and 18. For 30-day antecedent P and Q, see tables on p. 62.001-2.

1973	SELECTED RUNOFF EVENT					OXFORD, MISSISSIPPI		WATERSHED W-4C		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MARCH 14 - 16, 1973 (CONTINUED)										
3-15			1500	0.0	3.23	3-16	230	66.200	2.1494	
			1515	0.0	3.23		316	44.536	2.1761	
			1530	0.1600	3.27		400	26.936	2.1925	
			1545	0.2000	3.32		530	22.703	2.2159	
			1600	0.3200	3.40		630	22.703	2.2302	
			1615	0.2800	3.47		800	19.347	2.2500	
			1630	0.2800	3.54		828	21.502	2.2559	
			1645	0.2400	3.60		848	30.248	2.2613	
			1700	0.1600	3.64		914	32.000	2.2698	
			1715	0.1200	3.67		944	39.228	2.2810	
			1730	0.2400	3.73		1034	30.248	2.2992	
			1745	0.2000	3.78		1200	22.703	2.3230	
			1800	0.2400	3.84		1302	21.502	2.3373	
			1815	0.0800	3.86		1430	12.386	2.3529	
			1830	0.0800	3.88		1632	7.100	2.3653	
			1845	0.0800	3.90		1844	3.158	2.3724	
			1900	0.0800	3.92		2100	2.056	2.3761	
			1915	0.0800	3.94		2314	0.906	2.3782	
			1930	0.0400	3.95					
			1945	0.0800	3.97					
			2000	0.0400	3.98					
			2015	0.1200	4.01					
			2030	0.1600	4.05					
			2045	0.1600	4.09					
			2100	0.1600	4.13					
			2115	0.1600	4.17					
			2130	0.2000	4.22					
			2145	0.3200	4.30					
			2200	0.2400	4.36					
			2215	0.1200	4.39					
			2230	0.0800	4.41					
			2245	0.0800	4.43					
			2300	0.3200	4.51					
			2315	0.2800	4.58					
			2330	0.2000	4.63					
			2345	0.2000	4.68					
3-16			2400	0.1600	4.72					
			15	0.0400	4.73					
			30	0.0400	4.74					
			45	0.0400	4.75					
			100	0.0400	4.76					
			115	0.0008	4.76					
			130	0.0008	4.76					
			145	0.0008	4.76					
			200	0.0008	4.76					
			215	0.0008	4.76					
			230	0.0008	4.76					
			245	0.0008	4.76					
			300	0.0008	4.76					
			315	0.0008	4.76					
			330	0.0008	4.76					
			345	0.0008	4.76					
			400	0.0008	4.76					
			415	0.0008	4.76					
			430	0.0008	4.76					
			445	0.0008	4.76					
			500	0.0008	4.76					
			515	0.0008	4.76					
			530	0.0008	4.76					
			545	0.0400	4.77					
			600	0.0	4.77					
			615	0.0	4.77					
			630	0.0400	4.78					
			645	0.0800	4.80					
			700	0.0800	4.82					
			715	0.1200	4.85					
			730	0.1200	4.88					
			745	0.0800	4.90					
			800	0.0400	4.91					
			815	0.0800	4.93					
			830	0.1600	4.97					
			845	0.0800	4.99					
			900	0.0400	5.00					
			915	0.1600	5.04					
			930	0.0800	5.06					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000628. Thiessen weighted storm rainfall, rain gages 7, 8 and 18. For 30-day antecedent P and Q, see tables on p. 62.001-2.

1973 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI WATERSHED W-4C							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Rnoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MARCH 14 - 16, 1973 (CONTINUED)										
3-16				945	0.0800	5.08				
				1000	0.0400	5.09				
				1015	0.0007	5.09				
				1030	0.0400	5.10				
				1045	0.0	5.10				
				1100	0.0	5.10				
				1545	0.0	5.10				
				1600	0.0	5.10				
				1615	0.0400	5.11				
				1630	0.0	5.11				
				1645	0.0800	5.13				
				1700	0.0400	5.14				
				1715	0.0	5.14				
				1730	0.0400	5.15				
				1745	0.0409	5.16				
				1800	0.0409	5.17				
				1815	0.0400	5.18				
				1830	0.0800	5.20				
				1845	0.0400	5.21				
				1900	0.0400	5.22				
				1915	0.0800	5.24				
				1930	0.0	5.24				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000628. Thiessen weighted storm rainfall, rain gages 7, 8 and 18. For 30-day antecedent P and Q, see tables on p. 62.001-2.



OXFORD, MISSISSIPPI WATERSHED W-5

LOCATION: Marshall Co., Miss.; 6.1 mi. SW of Holly Springs, on State Highway No. 4; Willie Wilkins Creek, Pigeon Roost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 41 min. 55 sec. N.; Long. 89 deg. 30 min. 44 sec. W.

AREA: 1000.00 acres 1.56 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-5													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1973	P	6.64	3.83	10.86	9.75	7.27	1.02	3.04	1.34	1.28	2.68	8.79	4.23	60.73													
	Q	3.902	2.378	6.004	6.166	2.184	0.086	0.081	0.063	0.008	0.001	1.949	0.815	23.638													
STA AV	P	4.08	4.55	5.25	5.19	4.37	3.29	3.95	3.77	4.35	2.50	4.87	5.43	51.59													
	Q	1.499	1.900	2.041	1.668	0.804	0.401	0.442	0.375	0.456	0.190	1.120	1.801	12.698													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval								1 Day		2 Days		8 Days							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		3-14	0.774	11-27	0.645	4-19	0.980	1-21	1.697	1-21	2.302	1-21	2.591	3-14	2.893	4-17	5.306										
MAXIMUMS FOR PERIOD OF RECORD																											
		2-21	1.626	2-21	1.152	3-4	1.630	3-4	2.120	11-6	2.807	11-6	3.336	1-30	3.720	4-17	5.306										
		1971		1971		1964		1964		1972		1972		1957		1973											

NOTES: Watershed conditions: About 29% in cultivation (cotton, ryegrass and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 45% in pasture and idle land, good cover April to October with fair cover remainder of year; 25% in woods, good cover; 1% bare gullies. Percentages of total area in various land use categories are based on the latest survey completed in 1973. About 33% of drainage area above small desilting and retention dams. Gaging station relocated upstream 10-1-69 reducing area from 1130 to 1000 acres. For map of watershed, see Selected Runoff Events for Small Agricultural Watersheds in the United States, ARS, SWC, January 1960, p. 62.2-3. Monthly precipitation Thiessen weighted from rain gages 8 and 19. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 4N, Mississippi

1973 DAILY PRECIPITATION (inches)														OXFORD, MISSISSIPPI WATERSHED W-5													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.76	0.11	0.0	0.40	0.0	0.54	0.0	0.01	0.32	0.0	0.0														
	2	0.0	0.0	0.92	0.0	1.03	0.0	0.23	0.0	0.0	0.0	0.0	0.0														
	3	0.95	0.0	0.03	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	4	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.60	0.72														
	5	0.44	0.0	0.0	0.0	0.0	0.41	0.08	0.0	0.67	0.0	0.04	0.0														
	6	0.0	0.03	1.54	0.09	0.05	0.0	0.0	0.0	0.31	0.0	0.0	0.0														
	7	0.39	0.89	0.0	0.72	1.30	0.0	0.01	0.0	0.09	0.71	0.0	0.0														
	8	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.10	0.10														
	9	0.0	0.0	0.0	0.28	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0														
	10	0.0	0.0	1.13	0.0	0.0	0.0	0.12	0.01	0.0	0.0	0.0	0.0														
	11	0.0	0.0	0.10	0.0	0.50	0.07	0.0	0.0	0.0	0.0	0.0	0.0														
	12	0.0	0.04	0.0	0.0	0.0	0.19	0.0	0.12	0.0	0.0	0.0	0.0														
	13	0.0	1.14	0.0	0.0	0.0	0.04	0.0	0.59	0.05	0.34	0.0	0.0														
	14	0.0	0.12	1.99	0.0	0.0	0.0	0.0	0.46	0.0	0.22	0.0	0.0														
	15	0.0	0.0	2.25	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.09	0.0														
	16	0.0	0.0	0.48	1.11	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0														
	17	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	18	0.35	0.0	0.0	0.41	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0														
	19	0.0	0.0	0.02	2.61	0.45	0.0	0.07	0.0	0.0	0.0	0.0	0.61														
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.21	0.07														
	21	3.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	22	0.0	0.0	0.0	0.98	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	23	0.0	0.0	0.0	1.72	1.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	24	0.0	0.0	0.70	0.78	0.0	0.0	0.0	0.0	0.0	0.0	0.11	1.59														
	25	0.0	0.0	0.18	0.02	0.22	0.0	0.0	0.0	0.0	0.0	0.05	0.04														
	26	0.81	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	3.01	0.97														
	27	0.19	0.0	0.0	0.0	1.74	0.17	0.0	0.0	0.07	0.10	3.19	0.0														
	28	0.14	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.08	0.54	0.0	0.0														
	29	0.0	0.55	0.0	0.08	0.01	0.0	0.11	0.0	0.0	0.0	0.0	0.0														
	30	0.0	0.35	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0														
	31	0.0	0.35	0.0	0.0	0.0	0.0	0.67	0.05	0.0	0.30	0.0	0.13														
TOTAL		6.64	3.83	10.86	9.75	7.27	1.02	3.04	1.34	1.28	2.68	8.79	4.23														
STA AV		4.08	4.55	5.25	5.19	4.37	3.29	3.95	3.77	4.35	2.50	4.87	5.43														

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p. 62.001-1). Daily precipitation values Thiessen weighted from rain gages 8 and 19. STA AV based on 17 yr (1957-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.65	11.87	0.32	0.36	1.42	0.14	0.11	0.11	0.0	0.0	0.0	0.0
2	0.38	1.67	12.28	0.23	7.36	0.14	0.11	0.11	0.0	0.0	0.0	0.0
3	15.52	1.27	2.23	0.23	6.24	0.14	0.11	0.11	0.0	0.0	0.0	0.37
4	1.40	1.20	1.58	0.23	0.62	0.14	0.11	0.11	0.0	0.0	0.0	0.66
5	4.17	0.82	1.08	0.21	0.45	0.14	0.11	0.11	0.04	0.0	0.0	0.11
6	2.35	0.44	23.89	0.17	0.45	0.14	0.11	0.11	0.09	0.0	0.0	0.11
7	2.04	0.74	20.79	2.64	21.70	0.14	0.11	0.11	0.09	0.05	0.0	0.11
8	1.79	38.29	1.33	0.52	2.15	0.14	0.11	0.11	0.09	0.0	0.0	0.11
9	0.71	1.33	0.67	1.13	0.39	0.14	0.11	0.11	0.04	0.0	0.0	0.11
10	0.54	0.90	13.52	0.34	0.34	0.14	0.11	0.11	0.0	0.0	0.0	0.11
11	0.54	0.95	18.72	0.32	0.34	0.12	0.11	0.11	0.0	0.0	0.0	0.11
12	0.54	0.76	0.29	0.30	0.37	0.11	0.11	0.11	0.0	0.0	0.0	0.11
13	0.47	28.37	0.03	0.27	0.45	0.11	0.11	0.11	0.0	0.0	0.0	0.11
14	0.39	4.31	46.75	0.30	0.54	0.11	0.11	0.11	0.0	0.0	0.0	0.11
15	0.30	1.44	60.68	0.30	0.51	0.11	0.11	0.11	0.0	0.0	0.0	0.11
16	0.30	0.82	15.42	11.46	0.47	0.11	0.11	0.11	0.0	0.0	0.0	0.11
17	0.32	0.46	0.75	5.01	0.50	0.11	0.11	0.11	0.0	0.0	0.0	0.11
18	1.10	0.39	0.65	13.50	0.54	0.11	0.11	0.11	0.0	0.0	0.0	0.09
19	1.20	0.42	0.61	57.05	0.57	0.11	0.11	0.11	0.0	0.0	0.0	0.10
20	0.47	0.37	0.57	30.90	0.54	0.11	0.11	0.11	0.0	0.0	0.02	0.22
21	106.27	0.39	0.57	9.53	0.50	0.11	0.11	0.11	0.0	0.0	0.0	0.14
22	5.11	0.44	0.57	27.19	0.54	0.11	0.11	0.11	0.0	0.0	0.0	0.12
23	1.73	0.44	0.66	59.68	10.80	0.11	0.11	0.11	0.0	0.0	0.0	0.10
24	1.65	0.44	11.51	20.88	1.31	0.11	0.11	0.05	0.0	0.0	0.0	7.40
25	1.57	0.42	1.03	2.83	0.16	0.11	0.11	0.0	0.0	0.0	0.0	5.45
26	9.39	0.34	0.27	6.32	0.11	0.11	0.11	0.0	0.0	0.0	14.02	15.88
27	1.02	0.30	0.25	2.92	30.73	0.11	0.11	0.0	0.0	0.0	66.73	1.19
28	1.40	0.30	0.30	1.49	1.16	0.11	0.11	0.0	0.0	0.0	1.13	0.47
29	0.47		1.79	1.42	0.24	0.11	0.11	0.03	0.0	0.0	0.0	0.21
30	0.11		2.61	1.35	0.14	0.11	0.11	0.03	0.0	0.0	0.0	0.21
31	0.04		10.54		0.14		0.11	0.0		0.0		0.21
MEAN	5.2887	3.5678	8.1371	8.6357	2.9599	0.1198	0.1100	0.0855	0.0115	0.0015	2.7301	1.1048
INCHES	3.902	2.378	6.004	6.166	2.184	0.086	0.081	0.063	0.008	0.001	1.949	0.815
STA AV	1.499	1.900	2.041	1.668	0.804	0.401	0.442	0.375	0.456	0.190	1.120	1.801

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.02380. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 17 yr (1957-73) record period.

1973 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI				WATERSHED W-5			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF NOVEMBER 27 - 28, 1973										
RG WTD002			RG WTD002							
11-27	1.36	0.289	11-27	1330	0.0	0.0	11-27	1400	38.969	0.0
				1345	0.4800	0.12		1406	62.728	0.0049
				1400	1.4400	0.48		1412	102.000	0.0132
				1415	1.8000	0.93		1414	146.000	0.0171
				1430	1.5200	1.31		1416	200.000	0.0231
WATERSHED CONDITIONS: About 29% of area in cultivation, primarily cotton, ryegrass and soybeans, poor to fair cover; 45% in pasture and idle land with fair to good cover; 25% in woods, good cover; 1% in bare gullies.				1445	1.0800	1.58		1420	254.200	0.0380
				1500	0.3200	1.66		1422	317.800	0.0469
				1515	0.2400	1.72		1424	370.000	0.0589
				1530	0.2400	1.78		1426	452.500	0.0716
				1545	0.1200	1.81		1430	529.000	0.1059
				1600	0.0400	1.82		1432	601.000	0.1234
				1615	0.0400	1.83		1436	676.000	0.1654
								1440	720.000	0.2114
								1444	748.000	0.2597
								1450	768.000	0.3361
								1456	736.000	0.4089
								1506	680.500	0.5269
					1514	608.500	0.6118			
					1520	533.500	0.6693			
					1526	457.000	0.7173			
					1532	388.000	0.7598			
					1540	320.198	0.8065			
					1546	260.198	0.8357			
					1556	203.996	0.8734			
					1608	153.000	0.9094			
					1618	131.996	0.9326			
					1632	112.336	0.9610			
					1644	102.800	0.9822			
					1702	87.600	1.0106			
					1716	79.569	1.0301			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000992. Thiessen weighted storm rainfall, rain gages 8 and 19. For 30-day antecedent P and Q, see tables on pp. 62.002-1 and 2.

NOTES: To convert runoff in CFS to IN/Hr, multiply by 0.000992. Thiessen weighted storm rainfall, rain gages 8 and 19. For 30-day antecedent P and Q, see tables on pp. 62.002-1 and 2.



OXFORD, MISSISSIPPI WATERSHED W-17

LOCATION: Marshall Co., Miss.; 7.8 mi. SW of Holy Springs on County road; Pigeon Roost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 45 min. 11 sec. N.; Long. 89 deg. 34 min. 54 sec. W.

AREA: 32100.00 acres 50.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-17			
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	6.73	4.13	11.32	9.62	7.05	0.82	2.63	1.47	1.33	2.66	9.05	4.29	61.10			
	Q	3.211	1.842	5.082	4.857	1.813	0.269	0.291	0.388	0.284	0.271	1.671	0.803	20.788			
STA AV	P	4.08	4.58	5.16	5.20	4.46	3.26	4.26	3.75	4.09	2.46	4.81	5.43	51.53			
	Q	1.157	1.422	1.637	1.357	0.863	0.440	0.637	0.531	0.461	0.294	0.875	1.312	10.970			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1973		4-20	0.215	4-19	0.214	4-19	0.427	4-19	1.246	4-19	1.798	4-19	1.978	3-14	2.230		
														4-17	4.011		
MAXIMUMS FOR PERIOD OF RECORD																	
		7- 3	0.265	7- 3	0.265	7- 3	0.529	7- 3	1.553	7- 3	2.413	7- 3	2.719	7- 3	2.857		
		1972		1972		1972		1972		1972		1972		1972	1965		
															4.680		

NOTES: Watershed conditions: About 18% in cultivation (cotton, corn, soybeans and ryegrass), fair cover November to March, poor cover April and May improving to good by mid-July; 28% in pasture and idle land, good cover April to October with fair cover remainder of year; 48% in woods, good cover; 1% in bare gullies; 5% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1972. About 19% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.5-5. Monthly precipitation Thiessen weighted from 13 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 4N, Mississippi.

1973 DAILY PRECIPITATION (inches)													
OXFORD, MISSISSIPPI WATERSHED W-17													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.89	0.11	0.0	0.36	0.0	0.22	0.0	0.08	0.26	0.0	0.0	
2	0.0	0.0	1.04	0.0	1.27	0.0	0.36	0.0	0.02	0.0	0.0	0.0	
3	0.99	0.0	0.07	0.01	0.06	0.0	0.03	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.16	0.0	0.0	0.03	0.0	0.0	0.0	0.14	0.55	0.70	
5	0.42	0.0	0.14	0.0	0.0	0.22	0.01	0.0	0.55	0.0	0.07	0.0	
6	0.0	0.09	1.50	0.09	0.05	0.0	0.0	0.0	0.24	0.0	0.0	0.0	
7	0.39	0.99	0.07	0.73	1.32	0.0	0.02	0.0	0.06	0.78	0.0	0.0	
8	0.0	0.81	0.0	0.0	0.0	0.06	0.0	0.05	0.0	0.0	0.06	0.03	
9	0.0	0.0	0.0	0.31	0.0	0.04	0.21	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	1.30	0.0	0.0	0.0	0.10	0.09	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.10	0.0	0.68	0.03	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.05	0.0	0.0	0.0	0.17	0.0	0.09	0.0	0.0	0.0	0.0	
13	0.0	1.19	0.0	0.0	0.0	0.02	0.0	0.59	0.11	0.37	0.0	0.0	
14	0.0	0.11	1.65	0.0	0.0	0.0	0.0	0.40	0.0	0.12	0.0	0.0	
15	0.0	0.0 T	2.14	0.02	0.0	0.0	0.14	0.0	0.0	0.0	0.02	0.0	
16	0.0	0.0	0.51	1.04	0.0	0.0	0.83	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.29	0.0	0.0	0.41	0.0	0.0 T	0.0	0.0	0.0	0.0	0.39	0.0	
19	0.0	0.0	0.08	3.11	0.30	0.0	0.20	0.0	0.0	0.0	0.0	0.66	
20	0.0	0.0	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	1.31	0.09	
21	3.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
22	0.0	0.0	0.0	0.86	0.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	1.41	0.84	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.92	0.74	0.0	0.0	0.0	0.0	0.01	0.0	0.17	1.73	
25	0.0	0.0	0.22	0.02	0.19	0.0 T	0.0	0.0	0.0	0.0	0.06	0.04	
26	0.82	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0	2.98	0.94	
27	0.21	0.0	0.0	0.0	1.53	0.05	0.0	0.0	0.08	0.12	3.43	0.0	
28	0.19	0.0	0.0	0.0	0.0 T	0.12	0.0	0.0	0.17	0.57	0.0	0.0	
29	0.0		0.59	0.0	0.05	0.0 T	0.0	0.12	0.0	0.0	0.0	0.0	
30	0.0		0.38	0.0	0.0 T	0.08	0.0	0.08	0.01	0.0	2.0	0.0	
31	0.0		0.31		0.0		0.44	0.05		0.30		0.10	
TOTAL	6.73	4.13	11.32	9.62	7.05	0.82	2.63	1.47	1.33	2.66	9.05	4.29	
STA AV	4.08	4.58	5.16	5.20	4.46	3.26	4.26	3.75	4.09	2.46	4.81	5.43	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p.62.001-1). Daily precipitation values Thiessen weighted from rain gages 2, 5, 7, 8, 13 thru 15, 17 thru 20, 22 and 31. STA AV based on 17 yr (1957-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-17												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	36.8	368.5	16.7	44.3	32.5	13.1	13.8	11.3	18.9	11.0	12.7	15.3
2	34.9	52.6	207.9	31.6	182.8	12.9	22.8	10.9	18.9	10.9	12.5	13.8
3	419.8	24.2	60.0	30.2	265.5	12.2	15.3	11.1	15.4	10.9	12.5	13.0
4	88.4	20.6	34.9	30.6	30.9	11.3	14.3	11.1	12.0	11.1	12.5	53.9
5	96.6	19.2	29.9	28.8	22.8	11.6	13.4	11.1	11.6	11.4	12.5	20.2
6	81.6	23.6	253.9	28.3	22.4	11.3	12.9	10.9	12.5	11.4	12.5	16.7
7	61.6	38.6	741.9	113.8	455.3	10.9	12.5	10.7	13.1	12.5	12.5	16.1
8	55.3	906.4	52.0	43.3	81.7	11.1	11.8	10.5	14.2	12.2	12.5	16.4
9	35.4	55.4	34.4	66.8	40.6	12.8	11.3	10.3	13.9	10.9	12.5	16.4
10	32.1	34.9	79.7	34.0	32.5	8.9	11.6	10.5	11.8	10.9	12.5	15.5
11	31.1	31.1	760.5	29.2	158.7	9.9	12.5	10.9	11.8	10.9	12.7	14.4
12	30.2	29.2	64.2	27.9	62.2	11.6	12.5	11.1	11.8	11.1	13.3	14.1
13	30.2	421.9	42.3	26.5	29.7	11.6	12.0	50.6	11.6	12.2	13.3	15.3
14	27.9	157.4	633.1	25.7	27.4	11.1	12.2	27.9	11.6	12.5	13.0	15.8
15	25.7	54.1	1463.8	26.5	27.4	11.3	12.4	20.6	11.6	11.7	13.0	15.5
16	24.4	28.3	1080.6	206.6	27.0	11.6	16.1	18.6	11.6	11.7	13.0	15.8
17	23.2	22.8	170.5	38.3	26.5	12.2	14.2	17.9	12.0	11.9	13.3	15.8
18	28.5	23.2	56.5	241.0	25.7	12.9	12.7	18.6	12.4	11.9	14.4	16.1
19	37.5	21.0	46.1	966.9	26.6	12.9	12.7	18.9	12.7	11.9	14.4	18.6
20	25.2	19.2	40.5	1775.9	27.9	12.5	12.2	18.6	12.9	11.9	21.2	23.0
21	2429.7	18.6	33.0	63.3	25.7	12.5	11.6	17.6	12.5	11.9	27.6	17.4
22	163.1	17.9	28.8	352.8	24.5	12.9	11.6	17.3	12.2	11.9	14.1	15.8
23	50.1	17.6	27.9	1383.1	99.9	12.5	11.6	17.6	12.9	11.9	12.7	16.7
24	29.7	16.5	182.5	542.2	59.4	12.5	11.3	17.9	12.7	11.9	12.7	115.8
25	22.8	15.6	107.3	148.4	17.4	12.9	11.3	18.6	12.0	11.9	12.7	184.3
26	195.2	15.6	46.6	81.0	15.9	12.9	11.1	18.9	12.0	11.9	367.9	274.1
27	50.3	15.3	31.1	62.8	514.1	13.6	10.9	18.3	11.6	12.2	1409.3	33.3
28	70.5	15.6	28.8	34.9	34.6	13.8	10.7	18.3	12.0	12.7	88.1	20.6
29	40.6		140.0	33.9	19.0	12.9	10.7	19.2	11.8	13.0	23.7	17.0
30	27.4		58.6	32.5	14.6	12.9	10.7	19.2	10.9	12.7	18.8	16.4
31	24.8		300.2		13.8		11.3	18.9		12.7		16.4
MEAN	139.70	88.75	221.09	218.36	78.87	12.10	12.64	16.90	12.75	11.80	75.13	35.15
INCHES	3.211	1.842	5.082	4.857	1.813	0.269	0.388	0.388	0.284	0.271	1.671	0.808
STA AV	1.157	1.422	1.637	1.357	0.863	0.440	0.637	0.513	0.461	0.294	0.875	1.312

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0007415. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 17 yr (1957-73) record period.

1973 SELECTED RUNOFF EVENT			OXFORD, MISSISSIPPI WATERSHED W-17							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 19 - 21, 1973										
RG WTD013			RG WTD013							
4-19	0.26	0.029	4-19	1915	0.0	0.0	4-19	1912	39.748	0.0
				1930	0.6000	0.15		1926	63.656	0.0004
				1945	0.8400	0.36		1942	119.938	0.0011
				2000	1.4800	0.73		1956	248.528	0.0025
				2015	1.9600	1.22		2010	888.320	0.0066
WATERSHED CONDITIONS: About 18% of area in cultivation, primarily cotton, corn, soybeans and ryegrass, poor to fair cover; 28% in pasture and idle land, fair to good cover; 48% in woods, good cover; 1% in bare gullies; 5% urban.				2030	1.3600	1.56		2014	1386.000	0.0089
				2045	0.9200	1.79		2018	1644.000	0.0120
				2100	0.8000	1.99		2028	2243.997	0.0220
				2115	0.6800	2.16		2038	3311.999	0.0363
				2130	0.4400	2.27		2052	4379.984	0.0640
				2145	0.2800	2.34		2100	4949.504	0.0833
				2200	0.1994	2.39		2104	5211.344	0.0937
				2215	0.0800	2.41		2120	5815.141	0.1392
				2230	0.0400	2.42		2122	5896.223	0.1452
				2245	0.0	2.42		2134	6149.984	0.1824
				2300	0.3200	2.50		2146	6434.984	0.2213
				2315	0.6400	2.66		2158	6579.984	0.2615
				2330	0.2800	2.73		2216	6674.984	0.3229
				2345	0.2400	2.79		2236	6764.984	0.3921
				2400	0.2400	2.85		2248	6779.984	0.4340

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000309. Thiessen weighted storm rainfall, rain gages 2, 5, 7, 8, 13 thru 15, 17 thru 20, 22 and 31. For 30-day antecedent P and Q, see tables on pp. 62.005-1 and 2.



OXFORD, MISSISSIPPI WATERSHED W-32

LOCATION: Marshall Co., Miss.; 4.6 mi. E of Walhill on County road; Cuffawa Creek, Pigeon Roost Creek Watershed, Yazoo River Basin. Lat. 34 deg. 42 min. 56 sec. N.; Long. 89 deg. 37 min. 30 sec. W.

AREA: 20000.00 acres 31.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							OXFORD, MISSISSIPPI				WATERSHED W-32								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	7.26	4.33	12.85	10.94	7.09	2.05	4.54	1.62	2.44	2.82	9.20	4.78	69.92					
	Q	3.629	2.077	6.296	5.966	1.886	0.068	0.323	0.084	0.034	0.016	2.226	0.815	23.421					
STA AV	P	4.15	4.63	5.34	5.29	4.86	3.41	4.13	3.63	4.40	2.50	4.96	5.57	52.88					
	Q	1.287	1.657	1.938	1.560	1.058	0.336	0.389	0.356	0.391	0.122	0.986	1.650	11.731					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		4-19	0.425	4-19	0.411	4-19	0.782	4-19	1.722	1-21	2.160	1-21	2.379	3-14	3.088	4-17	5.346		
MAXIMUMS FOR PERIOD OF RECORD																			
		2-23	0.570	2-23	0.560	7- 9	0.960	12- 3	1.940	12- 3	2.450	12- 3	3.480	12- 3	3.720	3-24	6.130		
		1962		1962		1967		1964		1964		1964		1964		1965			

NOTES: Watershed conditions: About 27% in cultivation (cotton, corn, soybeans and ryegrass), fair cover November to March, poor cover April and May improving to good by mid-July; 32% in pasture and idle land, good cover April to October with fair cover remainder of year; 40% in woods, good cover; 1% in bare gullies. Percentages of total area in various land use categories are based on latest survey completed in 1972. About 23% of drainage area above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.10-5. Monthly precipitation Thiessen weighted from 9 rain gages. Precipitation and runoff records began Jan. 1957. For long-time precipitation records, see National Weather Service records at Holly Springs, 4N, Mississippi.

1973 DAILY PRECIPITATION (inches)														OXFORD, MISSISSIPPI WATERSHED W-32											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.98	0.14	0.0	0.30	0.0	0.23	0.0	0.11	0.34	0.0	0.0													
2	0.0	0.0	1.18	0.0	1.00	0.0	0.01	0.0	0.05	0.0	0.0	0.0													
3	1.04	0.0	0.03	0.0 T	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
4	0.0	0.0	0.34	0.0	0.0	0.03	0.0	0.0	0.0	0.12	0.65	0.83													
5	0.47	0.0	0.0	0.0	0.0	0.09	0.01	0.0	0.98	0.0	0.03	0.0													
6	0.06	0.0 T	1.60	0.09	0.06	0.0	0.0	0.0	0.23	0.0	0.0	0.0													
7	0.37	1.04	0.0	0.77	1.54	0.0	0.01	0.0	0.09	0.69	0.0	0.0													
8	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.08	0.04													
9	0.0	0.0	0.0	0.35	0.0	0.07	0.83	0.0	0.0	0.0	0.0	0.0													
10	0.0	0.0	1.57	0.0	0.0	0.0	0.23	0.19	0.0	0.0	0.0	0.0													
11	0.0	0.0	0.10	0.0	0.39	0.05	0.0	0.0	0.0	0.0	0.0	0.0													
12	0.0	0.06	0.0	0.0	0.0	0.82	0.0	0.07	0.0	0.0	0.0	0.0													
13	0.0	1.31	0.0	0.0	0.0	0.11	0.0	0.38	0.05	0.40	0.0	0.0													
14	0.0	0.13	2.08	0.0	0.0	0.0	0.0	0.62	0.0	0.23	0.0	0.0													
15	0.0	0.0 T	2.35	0.04	0.0	0.0	0.16	0.0	0.0	0.0	0.06	0.0													
16	0.0	0.0	0.53	1.16	0.0	0.0	1.24	0.0	0.0	0.0	0.0	0.0													
17	0.0	0.0	0.0	0.46	0.0	0.03	0.0	0.0	0.0	0.0	0.01	0.0													
18	0.43	0.0	0.0	0.46	0.0	0.03	0.0	0.0	0.0	0.0	0.37	0.0													
19	0.0	0.0	0.09	3.00	0.24	0.0	0.08	0.0	0.0	0.0	0.0	0.68													
20	0.0	0.0	0.02	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	1.57	0.10													
21	3.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0													
22	0.0	0.0	0.0	0.96	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
23	0.0	0.0	0.0	2.43	1.44	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0													
24	0.0	0.0	1.13	0.81	0.0	0.0	0.0	0.0	0.05	0.0	0.21	1.95													
25	0.0	0.0	0.27	0.04	0.06	0.01	0.0	0.0	0.0	0.0	0.06	0.04													
26	0.85	0.0	0.0	0.37	0.0	0.01	0.0	0.0	0.0	0.0	2.72	1.04													
27	0.20	0.0	0.0	0.0	1.70	0.15	0.0	0.0	0.52	0.10	3.43	0.0													
28	0.21	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.35	0.60	0.0	0.0													
29	0.0	0.67	0.0	0.02	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0													
30	0.0	0.39	0.0	0.0	0.0	0.45	0.0	0.26	0.01	0.0	0.0	0.0													
31	0.0	0.36			0.0		1.74	0.07		0.34		0.10													
TOTAL	7.26	4.33	12.85	10.94	7.09	2.05	4.54	1.62	2.44	2.82	9.20	4.78													
STA AV	4.15	4.63	5.34	5.29	4.86	3.41	4.13	3.63	4.40	2.50	4.96	5.57													

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C (p.62.001-1). Daily precipitation values Thiessen weighted from rain gages 3, 11 thru 14, 20, 21, 24 and 26. STA AV based on 17 yr (1957-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-32												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	9.1	331.4	1.3	5.4	8.3	2.1	0.3	25.9	0.4	7.6	0.3	0.0
2	7.2	32.9	174.5	0.6	81.9	1.9	1.1	4.1	0.4	0.4	0.2	0.0
3	321.8	13.8	22.6	0.7	161.8	2.2	0.2	2.0	0.4	0.0	0.2	0.1
4	48.7	10.0	11.7	0.6	15.6	1.8	0.2	0.9	0.3	0.0	1.1	58.1
5	61.2	5.9	8.5	0.3	14.0	1.5	0.2	0.4	5.2	0.0	0.4	0.6
6	50.2	1.3	216.9	0.3	15.1	1.5	0.2	0.2	1.2	0.0	0.2	0.3
7	28.8	13.2	600.7	41.3	423.6	1.3	0.2	0.2	0.9	0.7	0.2	0.3
8	23.0	709.9	26.4	11.0	35.7	1.3	0.3	0.1	0.7	0.3	0.2	0.3
9	12.6	22.6	13.6	25.9	6.9	1.3	6.5	0.1	0.7	0.0	0.1	0.2
10	10.2	13.6	125.3	4.9	4.8	1.3	22.7	0.1	0.6	0.1	0.1	0.2
11	5.8	8.5	596.7	1.5	27.9	1.3	4.8	0.1	0.3	0.1	0.1	0.2
12	9.1	4.3	20.8	0.6	20.1	13.1	1.7	0.1	0.3	0.1	0.1	0.2
13	10.5	412.2	5.8	0.3	5.5	12.2	1.0	0.2	0.2	0.1	0.1	0.1
14	4.1	107.6	602.4	0.2	1.4	6.0	0.7	26.6	0.3	0.6	0.0	0.1
15	1.4	27.7	1329.8	0.1	0.7	1.8	0.5	1.5	0.3	0.3	0.1	0.0
16	1.4	11.2	753.8	230.7	0.6	0.9	80.0	0.7	0.3	0.3	0.2	0.1
17	1.2	4.8	84.4	7.5	0.6	0.7	43.5	0.8	0.4	0.2	0.3	0.6
18	19.6	3.5	7.7	288.1	0.6	0.6	1.4	0.8	0.4	0.1	0.8	1.3
19	26.0	1.6	6.4	1090.0	1.0	0.6	0.6	0.6	0.3	0.1	0.4	2.3
20	5.0	0.8	6.4	800.8	1.0	0.6	0.5	0.5	0.3	0.2	17.6	1.3
21	1963.5	0.6	5.4	43.7	0.4	0.5	0.3	0.3	0.3	0.1	56.7	0.2
22	100.9	0.9	4.2	243.7	0.5	0.3	0.2	0.3	0.3	0.1	1.3	0.1
23	16.8	1.2	3.1	1585.2	220.0	0.3	0.2	0.4	0.4	0.1	0.7	0.1
24	9.2	1.2	206.0	411.0	73.9	0.3	0.2	0.5	0.4	0.2	0.7	148.5
25	6.4	1.1	96.8	73.0	12.6	0.2	0.2	0.7	0.4	0.1	0.9	148.5
26	178.7	1.0	15.6	89.1	8.5	0.2	0.2	0.7	0.4	0.2	411.4	283.8
27	33.0	1.1	5.4	34.7	402.8	0.2	0.2	0.4	3.2	0.1	1297.5	32.6
28	61.6	1.1	1.1	8.7	27.1	0.2	0.1	0.2	6.9	1.4	76.0	4.6
29	18.4		84.7	6.8	5.9	0.2	0.1	0.5	1.3	0.2	2.5	0.4
30	2.5		20.8	6.8	3.4	0.2	0.1	0.7	0.8	0.1	0.0	0.0
31	1.7		231.8		2.5		102.6	0.5		0.2		0.1
MEAN	98.38	62.32	170.66	167.11	51.12	1.90	8.74	2.28	0.95	0.45	62.35	22.10
INCHES	3.629	2.077	6.296	5.966	1.886	0.068	0.323	0.084	0.034	0.016	2.226	0.815
STA AV	1.287	1.657	1.938	1.560	1.058	0.336	0.389	0.356	0.391	0.122	0.986	1.650

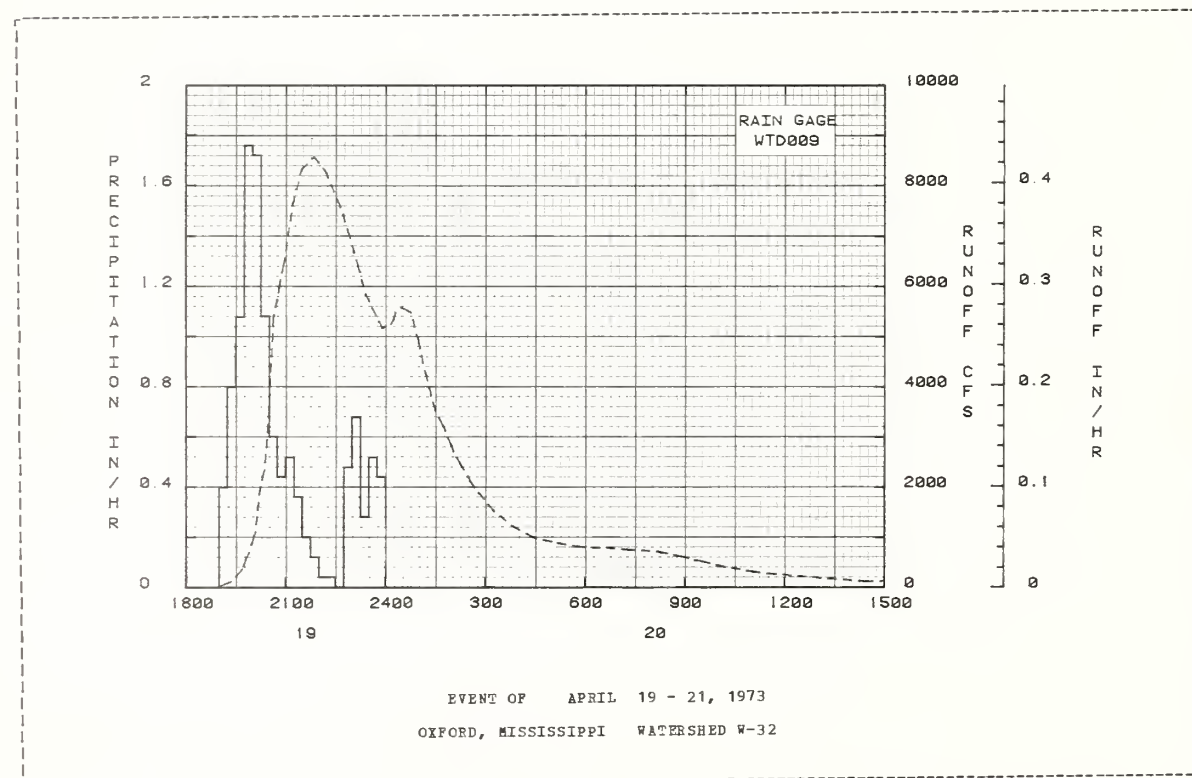
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.0011901. Quality of records: Good, estimated to be within 10% of actual. STA AV based on 17 yr (1957-73) record period.

1973 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-32										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 19 - 21, 1973										
RG WTD009										
4-19	0.11	0.022	4-19	1900	0.0	0.0	4-19	1858	12.609	0.0
				1915	0.4000	0.10		1922	120.000	0.0013
				1930	0.8000	0.30		1942	366.000	0.0053
				1945	1.0800	0.57		1944	443.600	0.0060
				2000	1.7600	1.01		1954	702.800	0.0107
WATERSHED CONDITIONS:										
About 27% of area in cultivation, primarily cotton, corn and soybeans, and ryegrass, poor to fair cover; 32% in pasture and idle land, fair to good cover; 40% in woods, good cover; 1% in bare gullies.										
				2015	1.7200	1.44		2006	1105.000	0.0197
				2030	1.0800	1.71		2014	2007.593	0.0300
				2045	0.6000	1.86		2022	2351.998	0.0444
				2100	0.4400	1.97		2028	3111.999	0.0580
				2115	0.5200	2.10		2038	5439.984	0.0933
				2130	0.3600	2.19		2048	5983.984	0.1405
				2145	0.2000	2.24		2058	6569.031	0.1924
				2200	0.1200	2.27		2112	7641.984	0.2746
				2215	0.0400	2.28		2128	8329.984	0.3802
				2230	0.0400	2.29		2150	8577.984	0.5339
				2245	0.0	2.29		2210	8289.984	0.6733
				2300	0.4800	2.41		2238	7569.984	0.8568
				2315	0.6800	2.58		2252	7097.984	0.9416
				2330	0.2800	2.65		2310	6415.984	1.0422
				2345	0.5200	2.78		2324	5831.031	1.1130
				2400	0.4400	2.89		2354	5159.984	1.2493
								2400	5209.984	1.2750
							4-20	10	5249.984	1.3182
								18	5479.984	1.3537
								28	5579.984	1.3994
								46	5469.980	1.4816
								102	4760.391	1.5492
								112	4265.984	1.5865
								130	3505.998	1.6443
								148	3119.998	1.6936

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000496. Thiessen weighted storm rainfall, rain gages 3, 11 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on pp. 62.010-1 and 2.

1973	SELECTED RUNOFF EVENT					OXFORD, MISSISSIPPI			WATERSHED W-32		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 19 - 21, 1973 (CONTINUED)											
				4-20				202	2703.998	1.7273	
								214	2463.998	1.7529	
								240	1992.593	1.8008	
								316	1509.998	1.8529	
								350	1210.000	1.8911	
								432	965.000	1.9289	
								546	804.433	1.9830	
								716	753.198	2.0409	
								814	702.800	2.0758	
								906	576.800	2.1033	
								944	476.000	2.1198	
								1012	402.000	2.1300	
								1102	312.000	2.1447	
								1130	267.000	2.1514	
								1212	231.000	2.1601	
								1320	171.000	2.1714	
								1426	105.312	2.1789	
								1514	128.559	2.1835	
								1548	140.811	2.1873	
								1710	122.757	2.1962	
								1844	103.011	2.2050	
								2118	91.168	2.2174	
								2326	72.000	2.2260	
								2400	69.692	2.2280	
				4-21				2400	17.623	2.2799	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000496. Thiessen weighted storm rainfall, rain gages 3, 11 thru 14, 20, 21, 24 and 26. For 30-day antecedent P and Q, see tables on pp. 62.010-1 and 2.



OXFORD, MISSISSIPPI WATERSHED W-34

LOCATION: Marshall Co., Miss.; 8 mi. S of Byhalia on County road; Pigeon Roost Creek, Yazoo River Basin.
Lat. 34 deg. 45 min. 34 sec. N.; Long. 89 deg. 41 min. 45 sec. W.

AREA: 75000.00 acres 117.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														OXFORD, MISSISSIPPI WATERSHED W-34	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	6.65	4.27	11.67	9.82	7.01	1.31	3.14	1.48	1.87	2.69	9.25	4.39	63.55	
	Q	2.581	2.638	6.217	4.439	2.489	0.555	0.510	0.483	0.398	0.415	2.289	1.257	24.271	
STA AV	P	4.26	4.59	5.11	5.17	4.51	3.15	4.27	3.88	4.34	2.17	4.92	5.58	51.94	
	Q	1.523	1.933	2.085	1.673	1.209	0.574	0.824	0.707	0.723	0.433	1.165	1.746	14.596	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge Date Rate	1 Hour Date Vol.	2 Hours Date Vol.	Maximum Volume for Selected Time Interval Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.					
1973		3-11 0.132	3-11 0.130	3-11 0.251	3-15 0.547	3-15 1.001	3-15 1.476	3-14 2.411	3-10 3.542						
MAXIMUMS FOR PERIOD OF RECORD															
		2-21 0.166	2-21 0.162	2-21 0.310	7- 9 0.800	7- 9 1.410	11-27 2.270	12- 3 2.720	3-24 4.770						
		1971	1971	1971	1967	1967	1968	1964	1965						

NOTES: Watershed conditions: About 21% in cultivation (cotton, corn, ryegrass and soybeans), fair cover November to March, poor cover April and May improving to good by mid-July; 28% in pasture and idle land, good cover April to October with fair cover remainder of year; 48% in woods, good cover; 1% bare gullies; 2% urban. Percentages of total area in various land use categories are based on the latest survey completed in 1973. About 21% of drainage area principally in upper reaches above small desilting and retention dams. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 62.11-4. Monthly precipitation Thiessen weighted from 21 rain gages. Monthly values of runoff include small amounts of flow through auxiliary Station 34-A. Precipitation and runoff records began Jan. 1957. Runoff for period Oct. 1969 thru Dec. 1970 discontinued due to dredging. For long-time precipitation records, see National Weather Service records at Holly Springs, 4N, Mississippi.

1973	DAILY PRECIPITATION (inches)												OXFORD, MISSISSIPPI WATERSHED W-34	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.92	0.12	0.0	0.36	0.0	0.18	0.0	0.07	0.25	0.0	0.0		
2	0.0	0.0	1.14	0.0	1.27	0.0	0.20	0.0	0.02	0.0	0.0	0.0		
3	0.94	0.0	0.05	0.02	0.06	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.20	0.0	0.0	0.06	0.0	0.0	0.0	0.13	0.60	0.72		
5	0.41	0.0	0.07	0.0	0.0	0.13	0.01	0.0	0.74	0.0	0.06	0.0		
6	0.02	0.08	1.64	0.09	0.05	0.0	0.0	0.0	0.24	0.0	0.0	0.0		
7	0.38	1.08	0.03	0.74	1.42	0.0	0.02	0.0	0.07	0.73	0.0	0.0		
8	0.0	0.79	0.0	0.0	0.0	0.03	0.0	0.03	0.0	0.0	0.05	0.03		
9	0.0	0.0	0.0	0.34	0.0	0.04	0.46	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	1.39	0.0	0.0	0.0	0.12	0.13	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.10	0.0	0.62	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.06	0.0	0.0	0.0	0.54	0.0 T	0.07	0.0	0.0	0.0	0.0		
13	0.0	1.22	0.0	0.0	0.0	0.04	0.0	0.51	0.09	0.39	0.0	0.0		
14	0.0	0.12	1.62	0.0	0.0	0.0	0.0	0.48	0.0	0.13	0.0	0.0		
15	0.0	0.0 T	2.13	0.04	0.0	0.0	0.11	0.0	0.0	0.0	0.03	0.0		
16	0.0	0.0	0.51	1.01	0.0	0.0	0.96	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.46	0.0	0.01	0.0	0.0	0.0	0.0	0.0 T	0.0		
18	0.29	0.0	0.0	0.44	0.0	0.01	0.0	0.0	0.0	0.0	0.41	0.0		
19	0.0	0.0	0.09	3.16	0.26	0.0	0.16	0.0	0.0	0.0	0.0	0.66		
20	0.0	0.0	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0	1.44	0.09		
21	3.41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0		
22	0.0	0.0	0.0	0.81	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.0	1.65	0.92	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.98	0.75	0.0	0.0	0.0	0.0	0.02	0.0	0.21	1.80		
25	0.0	0.0	0.23	0.02	0.14	0.0 T	0.0	0.0	0.0	0.0	0.06	0.04		
26	0.81	0.0	0.0	0.28	0.0	0.0 T	0.0	0.0	0.0	0.0	2.95	0.96		
27	0.21	0.0	0.0	0.0	1.54	0.08	0.0	0.0	0.28	0.14	3.43	0.0		
28	0.18	0.0	0.0	0.0	0.0 T	0.11	0.0	0.0	0.33	0.59	0.0	0.0		
29	0.0	0.0	0.60	0.0	0.04	0.0 T	0.0	0.10	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.41	0.0	0.0 T	0.22	0.0	0.12	0.01	0.0	0.0	0.0		
31	0.0	0.0	0.34	0.0	0.0	0.0	0.86	0.04	0.33	0.33	0.0	0.09		
TOTAL	6.65	4.27	11.67	9.82	7.01	1.31	3.14	1.48	1.87	2.69	9.25	4.39		
STA AV	4.26	4.59	5.11	5.17	4.51	3.15	4.27	3.88	4.34	2.17	4.92	5.58		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-4C, (p. 62.001-1). Daily precipitation values Thiessen weighted from rain gages 1 thru 3, 5, 7, 8, 11 thru 15, 17 thru 22, 24, 26, 27 and 31. STA AV based on 16 yr (1957-69, 1971-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) OXFORD, MISSISSIPPI WATERSHED W-34												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	115.8	1198.2	96.7	219.1	69.4	45.6	45.6	95.1	37.7	42.2	42.2	41.1
2	113.9	215.1	870.4	120.1	759.3	45.6	74.4	42.2	40.0	42.2	42.2	44.5
3	953.0	115.8	299.9	106.3	838.3	45.6	50.5	42.2	38.8	42.2	42.2	44.5
4	237.9	98.7	163.8	112.0	117.8	44.5	44.5	42.2	36.5	42.2	42.2	205.7
5	171.3	90.9	127.5	125.3	91.1	44.5	40.0	44.5	51.6	42.2	42.2	81.5
6	241.8	73.3	726.9	131.0	93.0	43.4	37.7	44.5	53.8	42.2	42.2	56.9
7	135.5	129.2	1832.8	366.3	1643.6	43.4	42.3	44.5	41.1	42.2	42.2	53.1
8	136.9	2684.3	184.2	222.8	423.8	44.5	46.8	43.4	38.9	42.2	42.2	54.3
9	94.7	232.7	104.4	269.3	169.0	44.5	65.0	44.5	37.7	42.2	42.2	46.8
10	89.0	125.5	132.7	163.6	109.7	42.2	82.2	61.6	38.9	42.2	42.2	44.5
11	75.9	101.3	2334.9	131.0	399.5	48.9	41.1	42.2	41.1	42.2	42.2	41.1
12	58.4	87.2	164.9	127.2	181.7	137.4	41.1	38.9	42.2	42.2	42.2	42.2
13	63.6	1141.8	94.7	117.7	83.0	206.0	42.2	141.1	41.1	42.2	42.2	44.5
14	63.6	538.4	893.5	112.0	65.4	136.2	43.4	105.4	40.0	42.2	42.2	41.1
15	55.5	240.9	3947.4	110.1	61.9	55.5	31.9	60.2	40.0	42.2	42.2	37.7
16	53.8	134.8	3075.0	814.3	58.3	50.7	88.0	56.6	40.0	42.2	42.2	44.9
17	61.9	106.3	525.9	110.0	53.8	52.0	126.4	51.4	40.0	42.2	42.2	49.4
18	64.5	88.8	209.0	825.5	57.4	52.0	40.0	43.4	40.0	42.2	42.2	46.8
19	142.1	67.5	144.3	908.2	67.4	49.4	43.4	43.4	41.1	42.2	41.1	46.8
20	77.2	85.0	129.1	2627.4	69.3	46.8	42.2	42.2	40.0	42.2	81.3	46.8
21	2981.8	106.3	112.0	218.8	69.3	44.5	41.1	38.9	38.9	42.2	203.4	46.8
22	507.8	102.5	94.9	552.3	79.2	43.4	42.2	38.9	40.0	42.2	55.0	46.8
23	157.1	92.9	89.1	2939.8	374.0	45.6	43.4	37.7	41.1	42.2	44.5	46.8
24	114.8	87.2	693.5	1438.6	252.1	49.4	43.4	35.3	41.1	42.2	55.0	472.4
25	83.2	89.1	504.3	390.9	0.7	52.0	45.8	36.5	41.1	42.2	60.2	902.8
26	611.9	98.7	200.1	237.4	2.4	49.4	41.0	36.5	43.4	42.2	1811.3	913.4
27	143.3	96.7	115.8	222.6	1294.8	46.8	35.3	32.7	51.0	42.2	3224.0	179.1
28	258.3	85.2	85.0	121.5	198.4	45.6	40.0	31.4	54.5	42.2	753.5	73.3
29	132.9		393.4	96.8	69.5	45.6	43.4	34.1	42.2	42.2	82.7	60.2
30	77.3		212.1	48.5	44.5	46.8	42.2	34.1	41.1	42.2	40.0	55.0
31	58.7		1026.0		46.8		120.1	35.3		42.2		50.9
MEAN	262.36	296.93	631.89	466.21	253.03	58.27	51.82	49.06	41.83	42.23	240.39	127.80
INCHES	2.581	2.638	6.217	4.439	2.489	0.555	0.510	0.483	0.398	0.415	2.289	1.257
STA AV	1.523	1.933	2.085	1.673	1.209	0.574	0.824	0.707	0.723	0.433	1.165	1.746

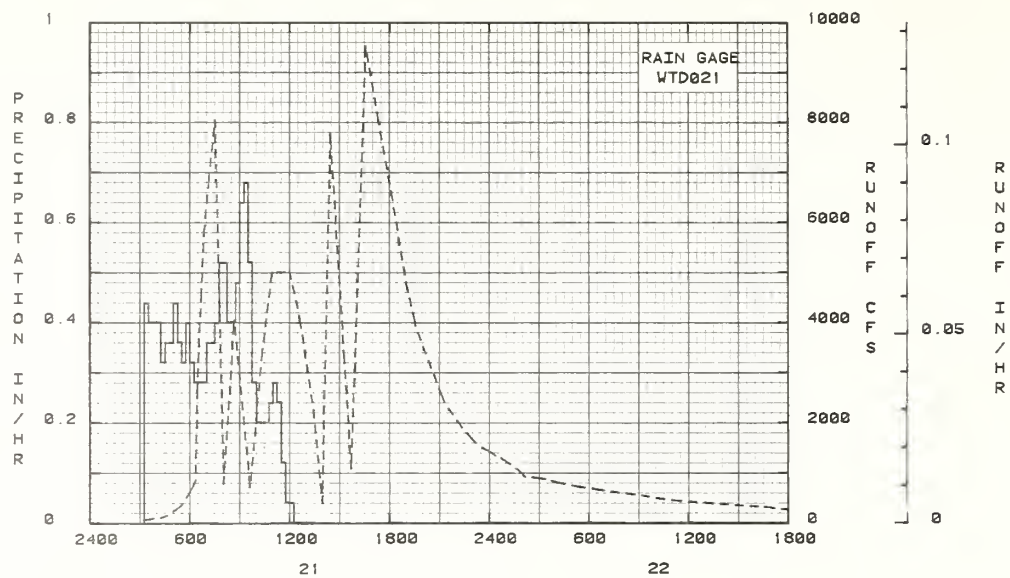
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.00031736. Quality of records: Good, estimated to be within 10% of actual. Daily discharge values include relatively insignificant flow through auxiliary station 34-A. Runoff for period October 1969 thru December 1970 discontinued, due to dredging in the channel. STA AV based on 16 yr (1957-69, 1971-73) record period. Part-year amounts are included in station averages.

1973 SELECTED RUNOFF EVENT OXFORD, MISSISSIPPI WATERSHED W-34												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JANUARY 21 - 24, 1973												
RG WTD021			RG WTD021									
1-21	0.29	0.003	1-21	315	0.0	0.0	1-21	314	73.188	0.0		
				330	0.4400	0.11		350	96.800	0.0007		
				345	0.4000	0.21		414	112.000	0.0012		
				400	0.4000	0.31		438	157.600	0.0019		
				415	0.4000	0.41		510	277.198	0.0035		
WATERSHED CONDITIONS:				430	0.3200	0.49		532	383.874	0.0051		
About 21% of area in cultivation, primarily cotton, corn, ryegrass and soybeans, poor to fair cover; 28% in pasture and idle land, fair cover; 48% in woods, good cover; 1% in bare gullies; 2% urban.				445	0.3600	0.58		600	619.918	0.0082		
				500	0.3600	0.67		620	857.187	0.0114		
				515	0.4400	0.78		626	2631.918	0.0137		
				530	0.3600	0.87		640	4535.254	0.0248		
				545	0.3199	0.95		650	5803.984	0.0362		
				600	0.4000	1.05		710	6997.504	0.0644		
				615	0.3200	1.13		730	8049.980	0.0976		
				630	0.2800	1.20		802	785.999	0.1287		
				645	0.2800	1.27		840	4054.801	0.1490		
				700	0.2800	1.34		938	709.999	0.1754		
				715	0.3600	1.43		1020	3334.999	0.1982		
				730	0.3600	1.52		1056	5014.379	0.2313		
				745	0.4000	1.62		1114	4999.984	0.2511		
				800	0.5200	1.75		1142	5018.734	0.2821		
				815	0.5200	1.88		1200	5022.035	0.3020		
				830	0.4000	1.98		1238	4035.000	0.3399		
				845	0.4000	2.08		1326	2249.999	0.3731		
				900	0.4800	2.20		1358	395.000	0.3825		
				915	0.6400	2.36		1426	7769.980	0.4076		
				930	0.6800	2.53		1516	3334.999	0.4688		
				945	0.5200	2.66		1542	1079.999	0.4815		
				1000	0.2800	2.73		1634	9522.305	0.5422		
				1015	0.2000	2.78		1722	7950.297	0.6346		
				1030	0.2000	2.83		1806	6583.980	0.7051		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00001322. Thiessen weighted storm rainfall, rain gages 1 thru 3, 5, 7, 8, 11 thru 15, 17 thru 22, 24, 26, 27 and 31. For 30-day antecedent P & Q, see table on pp. 62.011-1 and 2.

1973		SELECTED RUNOFF EVENT				OXFORD, MISSISSIPPI		WATERSHED W-34			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JANUARY 21 - 24, 1973 (CONTINUED)											
			1-21	1045	0.2000	2.88	1-21	1900	4773.984	0.7727	
				1100	0.2400	2.94		1934	3935.685	0.8053	
				1115	0.2800	3.01		2020	3227.638	0.8417	
				1130	0.2400	3.07		2118	2405.476	0.8777	
				1145	0.1200	3.10		2222	1899.999	0.9080	
				1200	0.0400	3.11		2312	1587.187	0.9272	
				1215	0.0400	3.12		2338	1494.000	0.9361	
				1230	0.0	3.12		2400	1425.999	0.9431	
				1245	0.0	3.12	1-22	4	1408.999	0.9444	
				1300	0.0007	3.12		22	1341.240	0.9498	
				1315	0.0007	3.12		44	1290.000	0.9502	
				1330	0.0001	3.12		116	1169.999	0.9649	
								144	1061.678	0.9718	
								210	906.999	0.9774	
								240	901.499	0.9834	
								320	868.342	0.9912	
								406	799.759	0.9997	
								518	725.000	1.0118	
								654	639.999	1.0262	
								818	584.797	1.0375	
								1006	494.458	1.0504	
								1134	428.958	1.0593	
								1328	383.874	1.0695	
								1516	343.937	1.0782	
								1638	308.326	1.0841	
								1712	285.000	1.0863	
								1800	261.600	1.0892	
								1832	222.528	1.0909	
								1908	210.860	1.0926	
								2018	203.160	1.0958	
								2102	187.938	1.0977	
								2202	176.584	1.1001	
								2246	157.600	1.1018	
								2400	153.800	1.1043	
							1-23	22	153.800	1.1050	
								106	150.000	1.1065	
								116	157.600	1.1068	
								126	157.600	1.1072	
								150	142.400	1.1080	
								238	134.800	1.1095	
								244	150.000	1.1096	
								250	146.200	1.1098	
								440	153.800	1.1135	
								512	153.800	1.1146	
								558	176.584	1.1162	
								814	165.200	1.1214	
								854	176.584	1.1229	
								1038	180.369	1.1270	
								1044	184.152	1.1272	
								1238	187.938	1.1319	
								1414	169.000	1.1356	
								1554	165.200	1.1393	
								1610	157.600	1.1399	
								1744	157.600	1.1432	
								1752	150.000	1.1434	
								1858	150.000	1.1456	
								2050	127.200	1.1490	
								2208	119.600	1.1511	
								2400	123.400	1.1541	
							1-24	1758	115.800	1.1825	
								2400	85.192	1.1906	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0001322. Thiessen weighted storm rainfall, rain gages 1 thru 3, 5, 7, 8, 11 thru 15, 17 thru 22, 24, 26, 27 and 31. For 30-day antecedent P & Q, see table on pp. 62.011-1 and 2.



EVENT OF JANUARY 21 - 24, 1973
 OXFORD, MISSISSIPPI WATERSHED W-34

TOMBSTONE, ARIZONA WATERSHED W-1

LOCATION: Cochise County, Arizona; 5.6 miles W of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 45 sec. N.; Long. 110 deg. 09 min. 10 sec. W.

AREA: 36900.00 acres 57.66 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)								TOMBSTONE, ARIZONA WATERSHED W-1											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	0.48	1.27	2.44	0.00	0.17	0.59	3.22	1.02	0.31	0.0	0.28	0.0	9.78					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.070	0.004	0.0	0.0	0.0	0.0	0.074					
STA AV	P	0.25	0.61	0.88	0.17	0.14	0.46	3.15	3.51	1.04	0.74	0.35	0.51	11.80					
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.079	0.005	0.0	0.0	0.0	0.113					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		7-27	0.080	7-27	0.044	7-27	0.052	7-27	0.054	7-27	0.054	7-27	0.054	8-21	0.054	8-15	0.054		
MAXIMUMS FOR PERIOD OF RECORD																			
		8-12	0.163	8-12	0.092	9- 9	0.130	9- 9	0.160	9- 9	0.190	9- 9	0.190	9- 8	0.230	9- 8	0.310		
		1972		1972		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed Conditions: 65% of area in desert shrubs (whitethorn, creosotebush and tarbush) with 25% cover and 2% grass cover. 35% is grassland with approximately 20% grass cover (crown spread) and 5% shrub cover. For topography, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation data: records began January 1954. Monthly totals are Thiessen weighted averages of 90 gages. Station averages are based on 1968-73 data. Runoff Data: Records began April 1964, station averages are based on 1966, 1968-73 data. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1973 DAILY AIR TEMPERATURE (degrees F)													TOMBSTONE, ARIZONA WATERSHED W-1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min	max min		
1	45 28	54 31	71 41	66 40	69 39	84 58	102 68	90 65	90 63	91 60	79 49	76 49		
2	38 29	58 32	68 45	57 37	78 44	82 56	105 78	92 65	93 62	90 58	76 54	58 50		
3	49 33	68 41	66 39	55 34	85 57	86 52	102 73	90 67	95 61	86 55	75 51	52 25		
4	59 33	72 43	69 38	55 38	78 51	89 55	103 71	91 64	98 67	86 56	73 55	57 30		
5	49 33	70 45	52 41	54 38	69 53	95 57	102 74	89 66	95 64	84 59	77 45	63 34		
6	52 39	65 49	62 37	65 36	68 41	97 65	98 67	89 64	95 71	84 60	81 49	63 36		
7	57 36	63 48	59 39	71 42	79 46	100 68	97 64	92 65	96 68	84 59	82 50	63 33		
8	57 33	61 38	64 33	61 34	83 51	100 68	98 69	93 65	94 70	82 59	85 52	72 42		
9	62 43	52 33	48 45	69 33	88 54	98 72	99 72	97 64	90 67	75 49	84 54	65 41		
10	51 39	54 34	56 36	78 45	91 58	96 70	95 72	96 71	93 67	68 46	85 54	67 38		
11	54 32	53 44	63 38	76 52	89 60	91 68	86 65	95 65	93 63	75 43	86 52	73 45		
12	64 31	56 39	58 45	78 50	86 57	82 64	87 66	94 68	91 59	77 43	85 53	71 43		
13	67 41	55 36	46 34	78 51	85 60	83 56	85 66	95 70	90 62	82 49	80 54	70 44		
14	68 43	58 33	44 35	72 50	80 54	84 57	82 68	97 67	93 62	81 55	74 57	67 44		
15	67 43	62 37	52 30	65 38	79 50	83 59	80 65	97 69	91 66	82 55	75 43	66 39		
16	69 41	58 34	63 36	66 45	82 57	87 55	80 66	89 72	91 62	83 56	75 46	65 40		
17	61 49	64 33	75 43	75 41	84 57	89 56	88 63	96 67	92 63	85 60	73 43	73 45		
18	68 34	62 34	68 50	65 51	89 57	92 58	90 66	99 66	93 66	83 56	72 46	63 47		
19	51 48	63 38	70 41	68 43	89 60	95 61	93 66	97 68	91 62	82 56	48 35	54 32		
20	39 28	46 44	67 47	61 48	88 62	93 63	96 66	93 67	88 64	86 58	54 32	50 25		
21	49 28	48 43	61 44	70 37	83 59	90 65	95 65	93 66	90 60	82 54	65 35	58 30		
22	46 31	57 36	61 37	76 44	84 55	90 63	93 67	96 67	91 60	89 57	60 43	62 39		
23	48 29	60 42	46 33	75 46	86 57	90 62	98 65	95 69	87 66	88 55	58 40	50 32		
24	55 30	69 39	58 34	75 48	85 57	97 68	99 65	95 67	86 58	85 53	56 30	48 30		
25	64 32	69 40	63 37	78 49	84 54	101 70	103 67	94 68	86 61	84 55	46 35	53 29		
26	50 39	72 43	69 41	85 51	83 61	101 73	93 66	93 65	81 56	80 51	48 35	58 32		
27	52 26	76 46	53 31	83 57	87 58	107 70	89 62	94 64	76 54	78 52	53 32	62 34		
28	53 30	68 47	57 37	82 68	91 59	107 75	82 64	93 62	87 55	79 50	61 31	65 37		
29	56 31		47 33	66 59	95 63	102 74	83 61	86 67	89 56	81 55	66 38	69 36		
30	63 44		57 32	67 49	92 65	100 74	88 66	89 62	90 55	68 42	75 48	65 46		
31	49 37		66 36		89 62		89 66	90 61		80 42		61 38		
AV.	55 35	61 39	60 38	70 45	84 55	93 64	93 67	93 66	91 62	82 53	70 45	63 38		
MEAN	45.3	50.3	49.2	57.5	69.7	78.4	80.0	79.8	76.5	67.8	57.5	50.1		
STA AV	59 35	61 37	67 41	75 45	84 53	91 61	93 67	89 65	86 60	78 52	67 43	59 37		

NOTES: STA AV values are based on 10 yr (1964-1973) record period.

1973 DAILY PRECIPITATION (inches) TOMBSTONE, ARIZONA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.01S	0.0	0.0	0.0	0.0	0.00T	0.0	0.01	0.0	0.0	0.0	0.0
2	0.09S	0.0	0.0	0.0	0.0	0.0	0.11E	0.00T	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.03E	0.0	0.07E	0.0	0.03E	0.12	0.0	0.0	0.0	0.0
6	0.0	0.00E	0.0	0.0	0.0	0.0	0.04E	0.00T	0.00T	0.0	0.0	0.0
7	0.0	0.0	0.02E	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0
8	0.0	0.00T	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.15E	0.0	0.0	0.0	0.04E	0.00T	0.00T	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.65E	0.18E	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.08E	0.02	0.0	0.0	0.0	0.0	0.0
12	0.0	0.01E	0.58E	0.0	0.0	0.32E	0.40E	0.0	0.0	0.0	0.0	0.0
13	0.0	0.05E	0.28E	0.0	0.0	0.19E	0.00T	0.0	0.0	0.0	0.0	0.0
14	0.0	0.00T	0.21E	0.0	0.0	0.0	0.21E	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.03E	0.0	0.00T	0.0	0.68E	0.0	0.00E	0.0	0.0	0.0
16	0.0	0.0	0.00T	0.0	0.06	0.0	0.14E	0.0	0.19E	0.0	0.0	0.0
17	0.0	0.01	0.0	0.0	0.00T	0.0	0.00T	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.64E	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.13E	0.0
20	0.05S	0.27H	0.01E	0.00E	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0
21	0.00T	0.83H	0.0	0.0	0.0	0.0	0.0	0.50E	0.0	0.0	0.0	0.0
22	0.0	0.09E	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.0	0.0
23	0.0	0.00T	0.23E	0.0	0.0	0.0	0.0	0.13E	0.0	0.0	0.11H	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.00T	0.0	0.0	0.00H	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.02E	0.0
27	0.0	0.0	0.11E	0.0	0.0	0.0	0.69E	0.01	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.01E	0.0	0.0	0.0	0.0
29	0.0	0.17S	0.0	0.0	0.0	0.0	0.01E	0.03E	0.0	0.0	0.0	0.0
30	0.08E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.23E	0.0	0.0	0.03	0.03	0.03	0.03	0.00T	0.0	0.0	0.0	0.0
TOTAL	0.48	1.27	2.44	0.00	0.17	0.59	3.22	1.02	0.31	0.0	0.28	0.0
STA AV	0.25	0.61	0.88	0.17	0.14	0.46	3.15	3.51	1.04	0.74	0.35	0.51

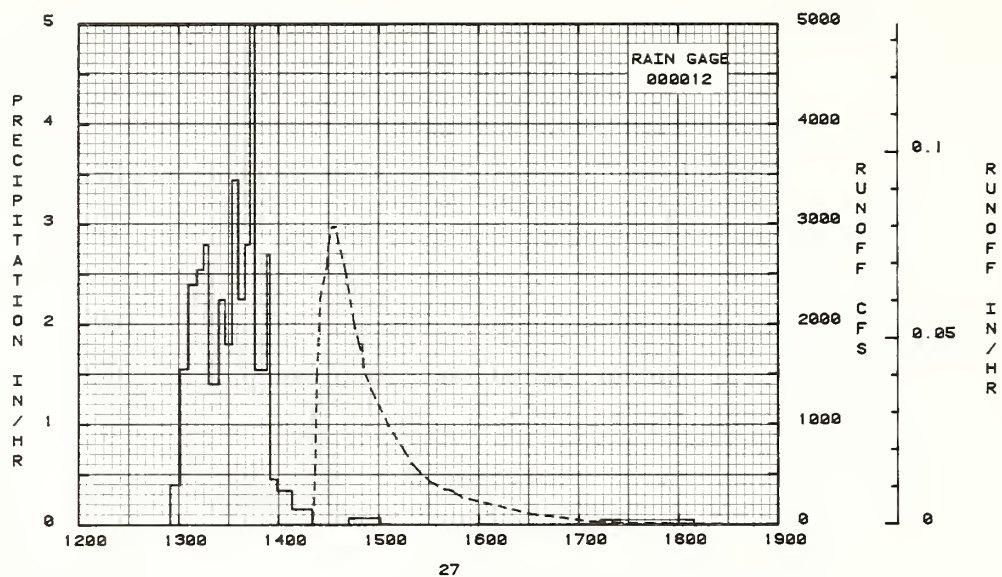
NOTES: Data are Thiessen weighted averages of values from 90 gages. STA AV are for 6 yr only (1968-73).

1973 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.073	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	17.465	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	7.146	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.944	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	83.487	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.449	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	3.5038	0.1917	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.070	0.004	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.029	0.079	0.005	0.0	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000645. STA AV are for 7 yr only (1966, 1968-73). Previously published data are being reevaluated.

1973 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 27, 1973										
RG 000012			RG 000012							
7-27	0.0	0.0	7-27	1255	0.0	0.0	7-27	1406	0.0	0.0
				1301	0.4000	0.04		1408	0.017	0.0
				1306	1.5600	0.17		1412	0.089	0.0
				1311	2.4000	0.37		1414	0.116	0.0
				1315	2.5500	0.54		1416	0.116	0.0
WATERSHED CONDITIONS: 65% of area in desert shrubs (Whitethorn, creosotebush and tarbush) with 23% cover and 2% grass cover. 35% is in grassland with approximately 20% grass cover (crown spread) and 5% shrub cover.				1318	2.8000	0.68		1419	0.071	0.0
				1324	1.4000	0.82		1420	0.062	0.0
				1328	2.2500	0.97		1421	125.169	0.0000
				1332	1.8000	1.09		1422	599.324	0.0002
				1336	3.4500	1.32		1423	1491.304	0.0007
				1340	2.2500	1.47		1425	2257.250	0.0023
				1343	2.8000	1.61		1429	2591.396	0.0066
				1346	5.0000	1.86		1430	2805.534	0.0080
				1353	1.5429	2.04		1431	2892.531	0.0092
				1355	2.7000	2.13		1432	2969.846	0.0105
				1359	0.4500	2.16		1434	2977.797	0.0133
				1408	0.3333	2.21		1436	2808.614	0.0157
				1420	0.1500	2.24		1440	2537.121	0.0205
				1442	0.0	2.24		1445	2025.937	0.0258
				1501	0.0632	2.26		1449	1744.517	0.0291
				1713	0.0	2.26		1450	1802.115	0.0299
				1809	0.0429	2.30		1451	1564.329	0.0306
								1452	1495.677	0.0312
								1456	1322.136	0.0337
								1506	975.205	0.0389
								1515	740.443	0.0424
								1520	600.000	0.0439
								1525	514.604	0.0451
								1531	416.888	0.0464
								1540	341.760	0.0479
								1542	344.251	0.0482
								1543	339.777	0.0484
								1550	264.741	0.0493
								1631	99.610	0.0527
								1711	16.253	0.0537
								1726	8.639	0.0538
								1741	3.312	0.0538
								1751	0.697	0.0538
								1811	0.089	0.0538
								1826	0.0	0.0538

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000269.



EVENT OF JULY 27, 1973
TOMBSTONE, ARIZONA WATERSHED W-1

TOMBSTONE, ARIZONA WATERSHED W-2

LOCATION: Cochise County, Arizona; 2-3/4 miles NW of Tombstone, Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 05 sec. N.; Long. 110 deg. 05 min. 55 sec. W.

AREA: 28100.00 acres 43.90 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							TOMBSTONE, ARIZONA WATERSHED W-2										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	0.49	1.26	2.41	0.00	0.18	0.53	2.88	1.05	0.32	0.0	0.29	0.0	9.40			
	Q	0.0	0.0	0.001	0.0	0.0	0.0	0.037	0.005	0.000	0.0	0.0	0.0	0.042			
STA AV	P	0.27	0.63	0.86	0.17	0.14	0.46	3.09	3.45	1.06	0.74	0.37	0.52	11.74			
	Q	0.0	0.0	0.000	0.0	0.0	0.001	0.049	0.037	0.011	0.001	0.0	0.0	0.149			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		7-27	0.069	7-27	0.030	7-27	0.034	8-21	0.034	8-21	0.034	8-20	0.034	8-19	0.034	8-13	0.034
MAXIMUMS FOR PERIOD OF RECORD																	
		7-26	0.160	7-26	0.130	7-26	0.170	7-26	0.210	9- 9	0.240	9- 9	0.240	9- 9	0.240	9- 9	0.430
		1959		1959		1969		1959		1964		1964		1964		1964	

NOTES: Watershed Conditions: 55% of area in oak woodland and desert shrubs (whitethorn, creosotebrush, tarbush and mormonia), with a 25% crown spread cover. 45% of area supports grass (black grama, curly mesquite, tobosa, blue grama and sideoats grama), with a basal area of 2.5%, and a shrub cover of approximately 6% crown spread. For topographic, geological and vegetation maps, see pages 63.1-3, 63.1-4, and 63.1-5, respectively of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: records began January 1954. Monthly totals are Thiessen weighted averages from 69 gages, station averages are for 6 yr only (1968-73). Runoff Data: Records began July 1959, station averages are based on 1966, 1968-73 data. Temperature Data: See table of daily maximum and minimum value included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1973 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA WATERSHED W-2												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
1	0.02S	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.01	0.0	0.0	0.0	0.0												
2	0.09S	0.0	0.0	0.0	0.0	0.0	0.0	0.11E	0.0	0.0	0.0	0.0	0.0												
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0												
4	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
5	0.0	0.0	0.0	0.03E	0.0	0.07E	0.0	0.02E	0.15	0.0	0.0	0.0	0.0												
6	0.0	0.00E	0.0	0.0	0.0	0.0	0.0	0.02E	0.00T	0.00T	0.0	0.0	0.0												
7	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0												
8	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0												
9	0.0	0.0	0.13E	0.0	0.0	0.0	0.0	0.05E	0.0	0.00T	0.0	0.0	0.0												
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.72E	0.19E	0.0	0.0	0.0	0.0												
11	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.02	0.0	0.0	0.0	0.0	0.0												
12	0.0	0.01E	0.54E	0.0	0.0	0.0	0.26	0.43E	0.0	0.0	0.0	0.0	0.0												
13	0.0	0.06E	0.27E	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0												
14	0.0	0.00T	0.19E	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0												
15	0.0	0.0	0.02E	0.0	0.00T	0.0	0.0	0.62E	0.0	0.00T	0.0	0.0	0.0												
16	0.0	0.0	0.00T	0.0	0.06	0.0	0.0	0.18E	0.0	0.17E	0.0	0.0	0.0												
17	0.0	0.01	0.0	0.0	0.00T	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0												
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0												
19	0.0	0.0	0.67E	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.14E	0.0												
20	0.05S	0.26M	0.01E	0.00E	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	0.0	0.0												
21	0.01	0.80E	0.0	0.0	0.0	0.0	0.0	0.0	0.59E	0.0	0.0	0.0	0.0												
22	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.0	0.0												
23	0.0	0.00T	0.24S	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0	0.13M	0.0												
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.00M	0.0												
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0												
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.02E	0.0	0.0												
27	0.0	0.0	0.11S	0.0	0.0	0.0	0.0	0.39E	0.02	0.0	0.0	0.0	0.0												
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01E	0.01E	0.0	0.0	0.0	0.0												
29	0.0	0.17S	0.0	0.0	0.0	0.0	0.0	0.00T	0.04E	0.0	0.0	0.0	0.0												
30	0.07E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
31	0.25E	0.0	0.0	0.0	0.04	0.0	0.0	0.03	0.00T	0.0	0.0	0.0	0.0												
TOTAL		0.49	1.26	2.41	0.00	0.18	0.53	2.88	1.05	0.32	0.0	0.29	0.0												
STA AV		0.27	0.63	0.86	0.17	0.14	0.46	3.09	3.45	1.06	0.74	0.37	0.52												

NOTES: Data are Thiessen weighted averages of values from 69 gages. STA AV are for 6 yr only (1968-73).

1973 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED W-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	1.212	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.449	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.188	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.981	0.0	0.363	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.435	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.247	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	5.370	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.105	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.088	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	40.721	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0220	0.0	0.0	0.0	1.4049	0.1795	0.0121	0.0	0.0	0.0
INCHES	0.0	0.0	0.001	0.0	0.0	0.0	0.037	0.005	0.000	0.0	0.0	0.0
STA AV	0.0	0.0	0.000	0.0	0.0	0.001	0.049	0.087	0.011	0.001	0.0	0.0

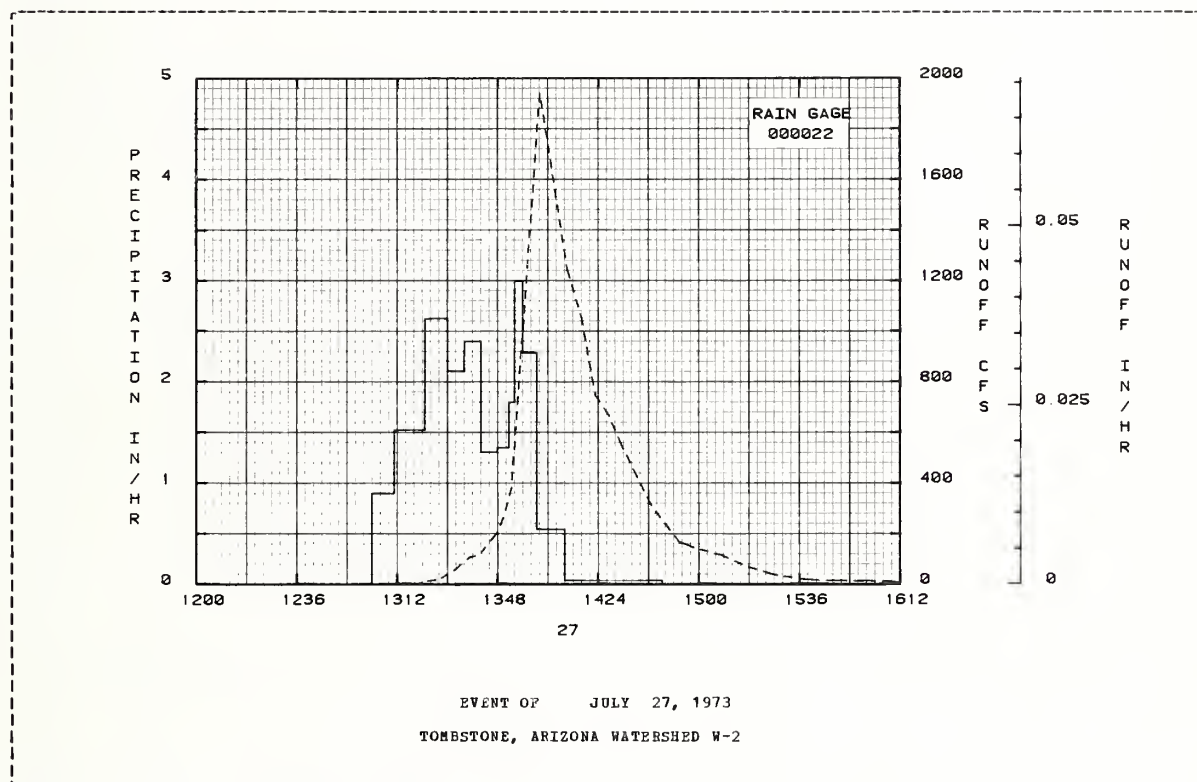
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000847. STA AV are based on 1966, 1968-73 data.

1973 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA WATERSHED W-2											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 27, 1973											
7-27	RG 000022	0.0	7-27	EG 000022	0.0	0.0	7-27	1308	0.0	0.0	
	0.0	0.0		1303	0.0	0.0		1313	0.084	0.0	
				1311	0.9000	0.12		1314	0.144	0.0	
				1322	1.5273	0.40		1315	0.237	0.0	
				1330	2.6250	0.75		1318	1.246	0.0	
				1336	2.1000	0.96		1319	2.533	0.0	
WATERSHED CONDITIONS:											
Oak woodland and desert shrubs											
(Whitethorn, creosotebush,											
tarbush, and mortonia) with											
a crown spread of 25% cover,											
occupy 55% of the area. The											
remaining 45% supports grass											
(black grama, curly mesquite,											
tobosa, blue grama, and											
sideoats grama) with a											
basal area of 2.5% cover,											
and a shrub cover of											
approximately 6% crown spread.											
				1342	2.4000	1.20		1320	4.085	0.0	
				1348	1.3000	1.33		1321	6.631	0.0	
				1352	1.3500	1.42		1323	12.880	0.0000	
				1354	1.8000	1.48		1326	18.375	0.0000	
				1357	3.0000	1.63		1328	24.168	0.0001	
				1402	2.2800	1.82		1330	40.569	0.0001	
				1412	0.5400	1.91		1333	58.311	0.0002	
				1447	0.0343	1.93		1338	107.443	0.0004	
								1340	112.592	0.0006	
								1342	123.350	0.0007	
								1346	179.692	0.0011	
								1348	205.055	0.0013	
								1350	264.156	0.0016	
								1353	383.781	0.0021	
								1403	1943.204	0.0089	
								1413	1238.914	0.0183	
								1418	1052.086	0.0216	
								1423	744.679	0.0244	
								1428	662.606	0.0264	
								1433	533.980	0.0281	
								1438	421.645	0.0296	
								1443	308.748	0.0306	
								1448	235.439	0.0314	
								1453	165.347	0.0320	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000353.

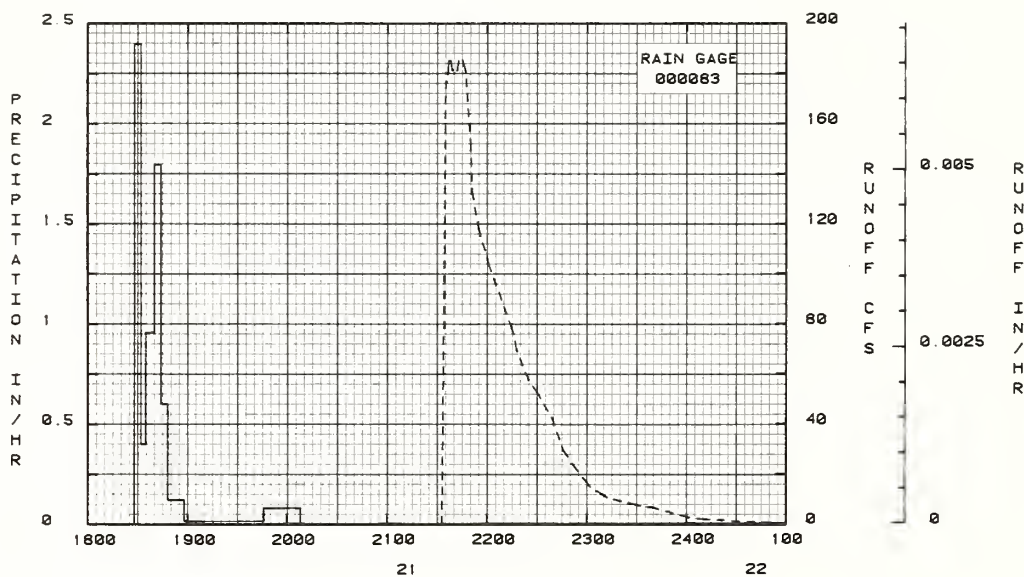
1973			TOMBSTONE, ARIZONA WATERSHED W-2							
SELECTED RUNOFF EVENT										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 27, 1973 (CONTINUED)										
							7-27	1458	143.688	0.0325
								1508	112.592	0.0332
								1518	65.820	0.0338
								1528	32.317	0.0341

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000353.



1973 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-2							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 21 - 22, 1973										
RG 000083			RG 000083							
8-21	0.0	0.0	8-21	1828	0.0	0.0	8-21	2133	0.0	0.0
				1832	2.4000	0.16		2134	75.310	0.0000
				1835	0.4000	0.18		2135	176.901	0.0001
				1840	0.9601	0.26		2136	176.901	0.0002
				1844	1.8000	0.38		2137	185.355	0.0003
WATERSHED CONDITIONS: Oak woodland and desert shrubs (Whitethorn, creosotebush, tarbush, and mitornia) with a crown spread of 25% cover, occupy 55% of the area. The remaining 45% supports grass (black grama, curly mesquite, tobosa, blue grama, and sideoats grama) with a basal area of 2.5% cover, and a shrub cover of approximately 6% crown spread.				1848	0.6000	0.42		2138	185.355	0.0004
				1858	0.1200	0.44		2139	181.097	0.0005
				1946	0.0125	0.45		2142	181.097	0.0008
				2008	0.0818	0.48		2143	185.355	0.0009
								2145	185.713	0.0012
								2147	180.745	0.0014
								2150	152.059	0.0017
								2151	132.406	0.0018
								2155	117.894	0.0020
								2201	103.679	0.0024
								2216	75.713	0.0032
								2218	68.789	0.0033
								2225	57.413	0.0036
								2232	50.222	0.0038
								2239	42.306	0.0040
								2246	29.108	0.0041
								2252	23.334	0.0042
								2302	14.696	0.0043
								2312	10.473	0.0044
								2332	7.091	0.0045
								2339	6.409	0.0045
							8-22	2	2.236	0.0046
								14	1.450	0.0046
								32	0.606	0.0046
								47	0.237	0.0046

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000353.



EVENT OF AUGUST 21 - 22, 1973
TOMBSTONE, ARIZONA WATERSHED W-2

TOMBSTONE, ARIZONA WATERSHED W-3

LOCATION: Cochise Connty; 1.3 miles north of Tombstone; tributary of Walnut Gnlch; San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 43 min. 57 sec. N.; Long. 110 deg. 03 min. 25 sec. W.

AREA: 2220.00 acres 3.47 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							TOMBSTONE, ARIZONA WATERSHED W-3								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annal	
1973	P	0.53	1.15	2.40	0.00	0.13	0.60	3.53	1.16	0.52	0.0	0.31	0.0	10.34	
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0	0.025	
STA AV	P	0.47	0.41	0.52	0.14	0.08	0.33	3.40	3.05	1.28	0.59	0.42	0.72	11.43	
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.110	0.025	0.0	0.0	0.0	0.161	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		7-27	0.054	7-27	0.024	7-27	0.025	7-27	0.025	7-27	0.025	7-26	0.025	7-25	0.025
		8-16	0.580	8-10	0.275	8-10	0.312	8-11	0.320	8-11	0.320	8-11	0.320	8-10	0.426
		1958		1971		1971		1971		1971		1971		1971	
MAXIMUMS FOR PERIOD OF RECORD															

NOTES: Watershed conditions: Vegetative cover; Desert shrubs (whitethorn, creosotebush, and tarbush) with a crown spread approximately 30% and grasses with basal area of approximately 0.8% cover occupy 55% of the area. Grasses (black grama, curly mesquite, tobosa) with basal area of 2.6% cover and shrub cover of 2% occupy the remaining 45% of the area. For topography, geologic and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pnb. No. 1226. Precipitation Data: Records began 1955. Monthly totals are Thiessen weighted averages of 13 gages, station averages are based on record period (1955-73). Runoff Data: Records began 1958, station averages are based on record period (1958-73). Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1973		DAILY PRECIPITATION (inches)					TOMBSTONE, ARIZONA WATERSHED W-3						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
2	0.11E	0.0	0.0	0.0	0.0	0.0	0.16E	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.06E	0.0	0.05E	0.0	0.04	0.22	0.0	0.0	0.0	0.0	
6	0.0	0.01E	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.21	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.67	0.21	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.03E	0.60E	0.0	0.0	0.33	0.64	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.02E	0.31E	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.16E	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.03	0.0	0.0	0.0	0.48E	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.08	0.0	0.24E	0.0	0.21	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	
20	0.04E	0.26H	0.10	0.00T	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	
21	0.0	0.74H	0.0	0.0	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.0	
22	0.0	0.09H	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.24E	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.17E	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	
27	0.0	0.0	0.09E	0.0	0.0	0.0	0.68E	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01E	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.18E	0.0	0.0	0.0	0.00T	0.05E	0.0	0.0	0.0	0.0	
30	0.05E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.31E	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	
TOTAL	0.53	1.15	2.40	0.00	0.13	0.60	3.53	1.16	0.52	0.0	0.31	0.0	
STA AV	0.47	0.41	0.52	0.14	0.08	0.33	3.40	3.05	1.28	0.59	0.42	0.72	

NOTES: Data are Thiessen weighted averages from 13 rain gages. STA AV are based on record period (1955-73).

1973 MEAN DAILY DISCHARGE (cfs) TOMESTONE, ARIZONA WATERSHED W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	2.331	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0752	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.110	0.025	0.0	0.0	0.0

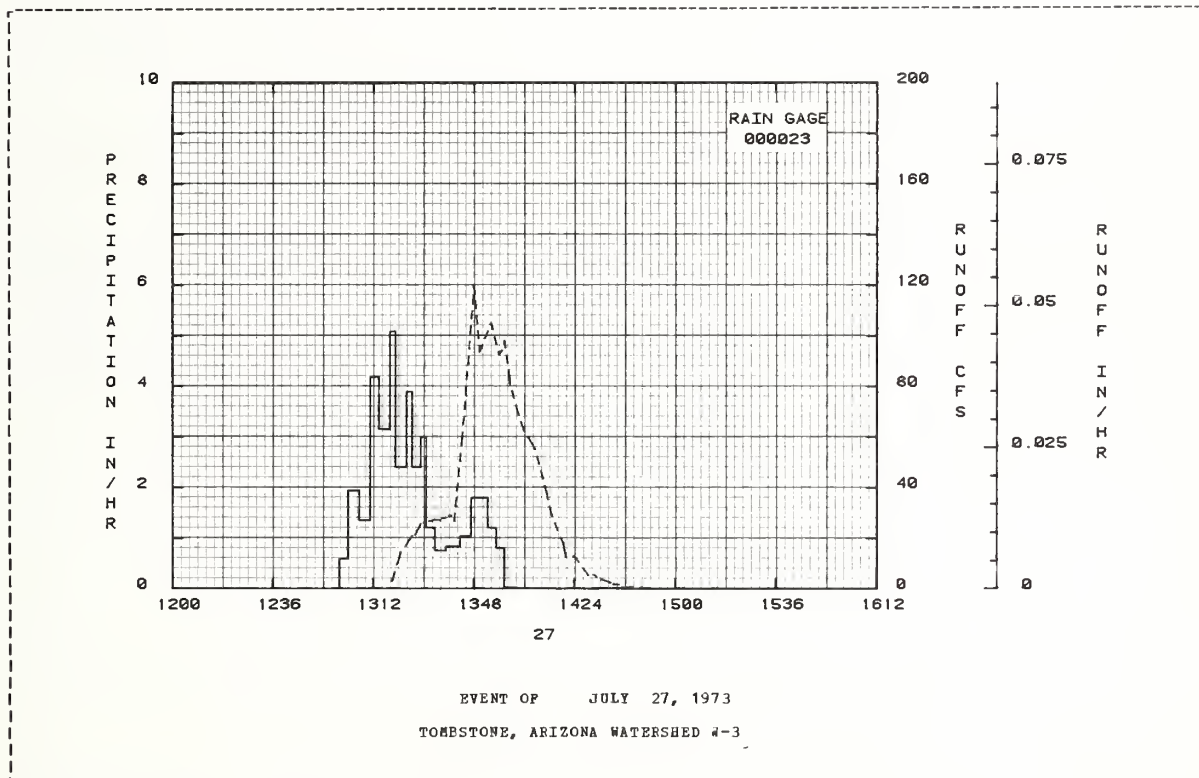
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.010722. STA AV based on record period (1958-73).

1973 SELECTED RUNOFF EVENT TOMESTONE, ARIZONA WATERSHED W-3											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 27, 1973											
RG 000023			RG 000023								
7-27	0.0	0.0	7-27	1300	0.0	0.0	7-27	1305	0.0	0.0	
				1303	0.6000	0.03		1307	0.020	0.0	
				1307	1.9500	0.16		1308	0.029	0.0	
				1311	1.3500	0.25		1309	0.064	0.0	
				1314	4.2000	0.46		1310	0.025	0.0	
WATERSHED CONDITIONS:				1318	3.1500	0.67		1311	0.042	0.0	
Vegetative Cover: Desert				1320	5.0999	0.84		1312	0.025	0.0	
shrubs (whitethorn, creosote-				1324	2.4000	1.00		1313	0.025	0.0	
bush, and tarbrush) with				1326	3.9001	1.13		1314	0.031	0.0	
a crown spread approximately				1329	2.4000	1.25		1315	0.119	0.0	
30% and grasses with basal				1331	2.9999	1.35		1316	0.199	0.0	
area of approximately 0.8%				1334	1.2000	1.41		1318	0.217	0.0	
cover, occupy 55% of the area.				1338	0.7500	1.46		1319	3.760	0.0000	
Grasses (black grama, curly				1343	0.8400	1.53		1322	14.523	0.0002	
mesquite, tobosa) with a				1347	1.0500	1.60		1326	20.975	0.0007	
basal area of 2.6% cover				1350	1.8000	1.69		1327	21.280	0.0009	
and shrub cover of 2% occupy				1353	1.8000	1.78		1329	25.725	0.0012	
the remaining 45% of the				1356	1.2000	1.84		1330	26.066	0.0015	
area.				1359	0.8000	1.88		1331	25.725	0.0017	
				1440	0.0146	1.89		1332	26.843	0.0018	
								1334	27.368	0.0023	
								1335	27.368	0.0025	
								1336	26.930	0.0026	
								1337	27.899	0.0028	
								1338	28.255	0.0031	
								1339	29.067	0.0033	
								1340	28.795	0.0035	
								1341	26.756	0.0037	
								1344	62.059	0.0047	
								1348	119.790	0.0074	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000447.

1973 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED W-3					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
EVENT OF JULY 27, 1973 (CONTINUED)								
				7-27			1350	93.626
							1354	105.209
							1357	92.739
							1358	94.338
							1359	98.131
							1401	80.980
							1404	68.731
							1406	62.336
							1410	55.112
							1414	38.207
							1416	28.525
							1420	18.161
							1421	12.814
							1424	12.638
							1429	5.159
							1431	5.594
							1432	4.510
							1434	3.555
							1437	2.209
							1438	1.715
							1440	1.424
							1441	0.590
							1445	0.550
							1448	0.217
							1451	0.031
							1452	0.010
							1455	0.005
							1500	0.002
							1505	0.001
							1514	0.0

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000447.



1973 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	1.978	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0638	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.084	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.0	0.332	0.145	0.029	0.0	0.0	0.0

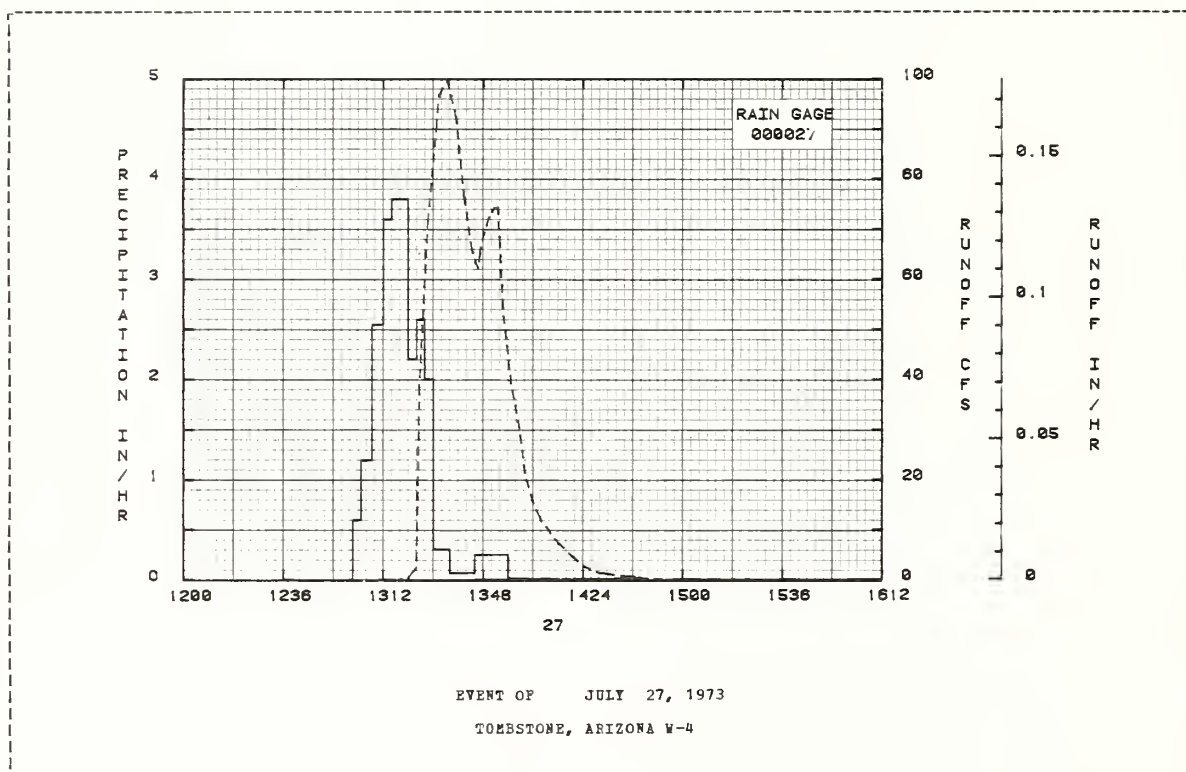
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.042503. STA AV based on record period (1955-58) and (1961-73).

1973 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-4									
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF JULY 27, 1973									
RG 000027			RG 000027						
7-27	0.0	0.0	7-27	1301	0.0	0.0	7-27	1318	0.0
				1304	0.6000	0.03		1319	0.216
				1308	1.2000	0.11		1321	0.416
				1312	2.5500	0.28		1324	2.557
				1315	3.6000	0.46		1325	38.972
WATERSHED CONDITIONS: 100% of area dominated by desert shrubs (whitethorn, creosotebush and tarbush) with a crown spread of approximately 33% and an understory of grasses with approximately 0.6% basal cover.				1318	3.8001	0.65		1328	71.656
				1321	3.8000	0.84		1331	90.479
				1324	2.2000	0.95		1332	96.902
				1327	2.6000	1.08		1335	99.568
				1330	2.0000	1.18		1338	92.574
				1336	0.3000	1.21		1341	76.309
				1345	0.0667	1.22		1344	65.249
				1357	0.2500	1.27		1346	62.091
				1441	0.0136	1.28		1347	66.438
								1350	72.424
								1351	73.582
								1352	74.358
								1353	74.435
								1354	66.363
								1355	54.139
								1358	39.156
								1401	30.277
								1403	21.316
								1406	15.236
								1409	11.688
								1415	7.325
								1420	4.762
								1424	2.729
								1430	1.342
								1435	0.890

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771.

1973			SELECTED RUNOFF EVENT					TOMBSTONE, ARIZONA W-4				
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JULY 27, 1973 (CONTINUED)												
							7-27	1441	0.592	0.0839		
								1442	0.654	0.0840		
								1443	0.315	0.0840		
								1444	0.406	0.0840		
								1447	0.122	0.0840		
								1457	0.047	0.0840		

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.001771.



TOMBSTONE, ARIZONA W-8

LOCATION: Cochise County; 1-1/2 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 43 min. 23 sec. N.; Long. 110 deg. 02 min. 39 sec. W.

AREA: 3830.00 acres 5.98 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA W-8	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	0.47	1.23	2.16	0.0	0.19	0.52	3.41	1.48	0.38	0.0	0.28	0.0	10.13	
	Q	0.0	0.0	0.0	0.0	0.0	0.0	0.049	0.065	0.0	0.0	0.0	0.0	0.114	
STA AV	P	0.24	0.66	0.78	0.17	0.12	0.44	2.80	3.56	1.10	0.76	0.37	0.53	11.51	
	Q	0.0	0.0	0.0	0.0	0.0	0.004	0.046	0.133	0.011	0.002	0.0	0.0	0.196	
ANNUAL MAXIMUM DISCHARGE (in/br) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		8-21	0.099	8-21	0.058	8-21	0.064	8-21	0.065	8-21	0.065	8-20	0.065	8-19	0.065
MAXIMUMS FOR PERIOD OF RECORD															
		7-22	1.110	7-22	0.310	7-22	0.320	7-22	0.340	7-22	0.340	7-22	0.340	7-22	0.340
		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Vegetative cover: approximately 33% of area is dominated by desert shrubs (white-thorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5% interspersed by desert shrubs with a crown spread of 5%. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, OSDA Misc. Pub.1226. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 17 gages, station averages are based on 1968-73 data. Runoff Data: Records began 1963, station averages are based on 1966, 1968-73 data. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1973 DAILY PRECIPITATION (inches)														TOMBSTONE, ARIZONA W-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.01S	0.0	0.0	0.0	0.0	0.01	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
2	0.08S	0.0	0.0	0.0	0.0	0.0	0.15E	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.03E	0.0	0.09E	0.0	0.04	0.12	0.0	0.0	0.0	0.0	0.0		
6	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.13E	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.17	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.01E	0.46S	0.0	0.0	0.23	0.78	0.0	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.03E	0.24E	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.00T	0.15E	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.04E	0.0	0.0	0.0	0.81	0.0	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.09	0.0	0.46	0.0	0.07E	0.0	0.0	0.0	0.0		
17	0.0	0.00T	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.60E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12M	0.0	0.0		
20	0.02S	0.27M	0.0	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0		
21	0.0	0.78M	0.0	0.0	0.0	0.0	0.0	1.12	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.13M	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.23E	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.14E	0.0	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00M	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.02E	0.0	0.0		
27	0.0	0.0	0.10E	0.0	0.0	0.0	0.20E	0.00T	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.01E	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.17S	0.0	0.0	0.0	0.00T	0.04E	0.0	0.0	0.0	0.0	0.0		
30	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.31E	0.0	0.0	0.02	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.47	1.23	2.16	0.0	0.19	0.52	3.41	1.48	0.38	0.0	0.28	0.0			
STA AV	0.24	0.66	0.78	0.17	0.12	0.44	2.80	3.56	1.10	0.76	0.37	0.53			

NOTES: Data are Thiessen weighted averages from 17 rain gages. STA AV are based on 1968-73 data.

1973 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.072	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	4.207	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.992	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	2.680	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.415	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.2542	0.3383	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.0	0.0	0.0	0.0	0.049	0.065	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.0	0.0	0.0	0.004	0.046	0.133	0.011	0.002	0.0	0.0

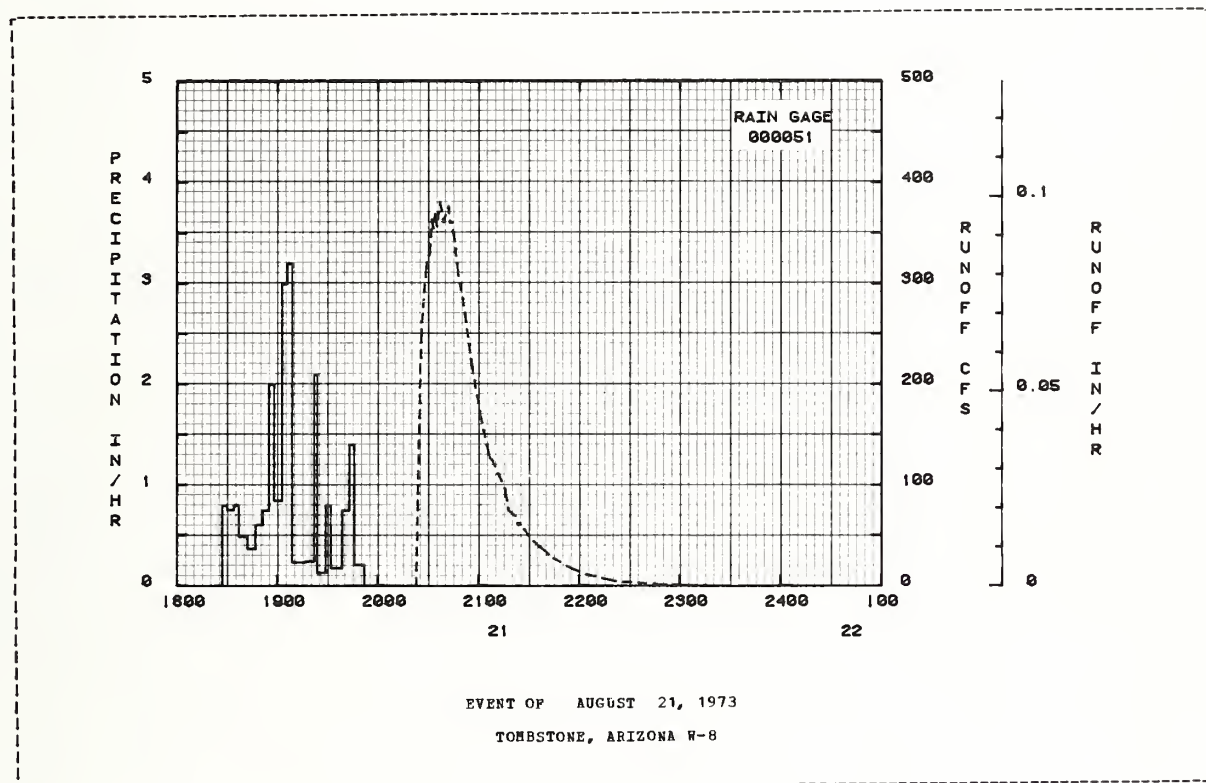
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.006215. STA AV are based on 7 yr only (1966, 1968-73).

1973 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-8											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF AUGUST 21, 1973											
RG 000051			FG 000051								
8-21	0.03	0.0	8-21	1827	0.0	0.0	8-21	2023	0.0	0.0	
				1830	0.8000	0.04		2024	84.159	0.0002	
				1834	0.7500	0.09		2026	254.168	0.0015	
				1837	0.8002	0.13		2029	320.875	0.0053	
				1842	0.4799	0.17		2031	331.408	0.0083	
WATERSHED CONDITIONS: Vegetative cover: Approximately 33% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. The remaining 67% of the area is dominated by grasses (black grama, curly mesquite, sideoats grama) with a basal area of about 2.5%, interspersed by desert shrubs with a crown spread of about 5%.				1847	0.3600	0.20		2032	363.727	0.0097	
				1851	0.6000	0.24		2033	354.747	0.0111	
				1855	0.7500	0.29		2034	368.915	0.0130	
				1858	1.9999	0.39		2035	356.447	0.0144	
				1903	0.8400	0.46		2037	381.179	0.0174	
				1906	2.9998	0.61		2038	371.089	0.0193	
				1909	3.1998	0.77		2039	360.719	0.0208	
				1917	0.2250	0.80		2042	377.214	0.0257	
				1922	0.2400	0.82		2043	359.863	0.0271	
				1924	2.0995	0.89		2044	359.863	0.0286	
				1929	0.1200	0.90		2045	349.250	0.0304	
				1932	0.8000	0.94		2048	307.385	0.0344	
				1939	0.1714	0.96		2052	268.850	0.0393	
				1943	0.7500	1.01		2056	218.006	0.0435	
				1946	1.3999	1.08		2102	161.708	0.0485	
				1952	0.2000	1.10		2105	139.574	0.0505	
								2107	126.206	0.0516	
								2108	124.558	0.0522	
								2112	110.045	0.0542	
								2116	95.505	0.0560	
								2117	84.348	0.0564	
								2118	73.953	0.0567	
								2122	68.615	0.0579	
								2124	59.688	0.0585	
								2125	61.895	0.0587	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.

1973			TOMBSTONE, ARIZONA W-8							
SELECTED RUNOFF EVENT			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 21, 1973 (CONTINUED)										
				8-21				2130	49.317	0.0600
								2136	38.544	0.0611
								2142	30.711	0.0620
								2145	26.658	0.0624
								2156	16.294	0.0634
								2205	10.530	0.0639
								2222	4.052	0.0644
								2252	0.279	0.0647
								2316	0.0	0.0647

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000259.



TOMBSTONE, ARIZONA W-11

LOCATION: Cochise County; 4-1/3 miles northeast of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 44 min. 28 sec. N.; Long. 109 deg. 59 min. 40 sec. W.

AREA: 2035.00 acres 3.18 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							TOMBSTONE, ARIZONA W-11									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual		
1973	P	0.46	1.25	1.98	0.0	0.25	0.53	3.69	1.62	0.35	0.0	0.26	0.0	10.40		
	Q	0.0	0.0	0.000	0.0	0.0	0.0	0.124	0.163	0.0	0.0	0.0	0.0	0.287		
STA AV	P	0.26	0.65	0.75	0.19	0.14	0.40	2.87	3.63	1.07	0.74	0.37	0.55	11.61		
	Q	0.0	0.0	0.000	0.0	0.0	0.002	0.093	0.165	0.015	0.004	0.0	0.0	0.279		
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																
	Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval 6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1973	8-21	0.245	8-21	0.146	8-21	0.162	8-21	0.163	8-21	0.163	8-20	0.163	8-19	0.163	8-13	0.163
MAXIMUMS FOR PERIOD OF RECORD																
	9-11	0.520	9-10	0.620	9- 9	0.750	9- 9	0.770	9- 9	0.970	9- 9	0.970	9-10	1.460	9- 8	1.700
	1964		1964		1964		1964		1964		1964		1964		1964	

NOTES: Watershed conditions: Approximately 20% of the area dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% and an understory of grasses with a basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sideoats grama) with a basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pnb. 1226, p. 63.1-3. For geologic map (p. 63.1-4) and vegetation map (p.63.1-5) of foregoing reference. Precipitation Data: Records began 1963. Monthly totals are Thiessen weighted averages of 10 rain gages, station averages are for 6 yr (1968-73). Runoff Data: Records began 1963, station averages are based on 1966, 1968-73 data. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1973 DAILY PRECIPITATION (inches)													TOMBSTONE, ARIZONA W-11	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.01S	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0		
2	0.08E	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.02E	0.0	0.10E	0.0	0.05	0.00T	0.0	0.0	0.0	0.0		
6	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0		
7	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.11E	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.16	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.39E	0.0	0.0	0.22	0.92	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.03E	0.19E	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.00T	0.15E	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.04E	0.0	0.0	0.0	0.94	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.12	0.0	0.67	0.0	0.00T	0.0	0.0	0.0		
17	0.0	0.01	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.62E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12M	0.0		
20	0.01S	0.29M	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0		
21	0.0	0.74E	0.0	0.0	0.0	0.0	0.0	1.45	0.0	0.0	0.0	0.0		
22	0.0	0.17E	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.20E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12E	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.02E	0.0		
27	0.0	0.0	0.08E	0.0	0.0	0.0	0.17	0.00T	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0		
29	0.0	0.17E	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
30	0.04E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.32E	0.0	0.0	0.03	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.46	1.25	1.98	0.0	0.25	0.53	3.69	1.62	0.35	0.0	0.26	0.0		
STA AV	0.26	0.65	0.75	0.19	0.14	0.40	2.87	3.63	1.07	0.74	0.37	0.55		

NOTES: Data are Thiessen weighted averages of 10 rain gages. STA AV are for 6 yr only (1968-73).

1973 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-11												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	5.405	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.761	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	4.464	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.932	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0004	0.0	0.0	0.0	0.3429	0.4494	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.000	0.0	0.0	0.0	0.124	0.163	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.000	0.0	0.0	0.002	0.093	0.165	0.015	0.004	0.0	0.0

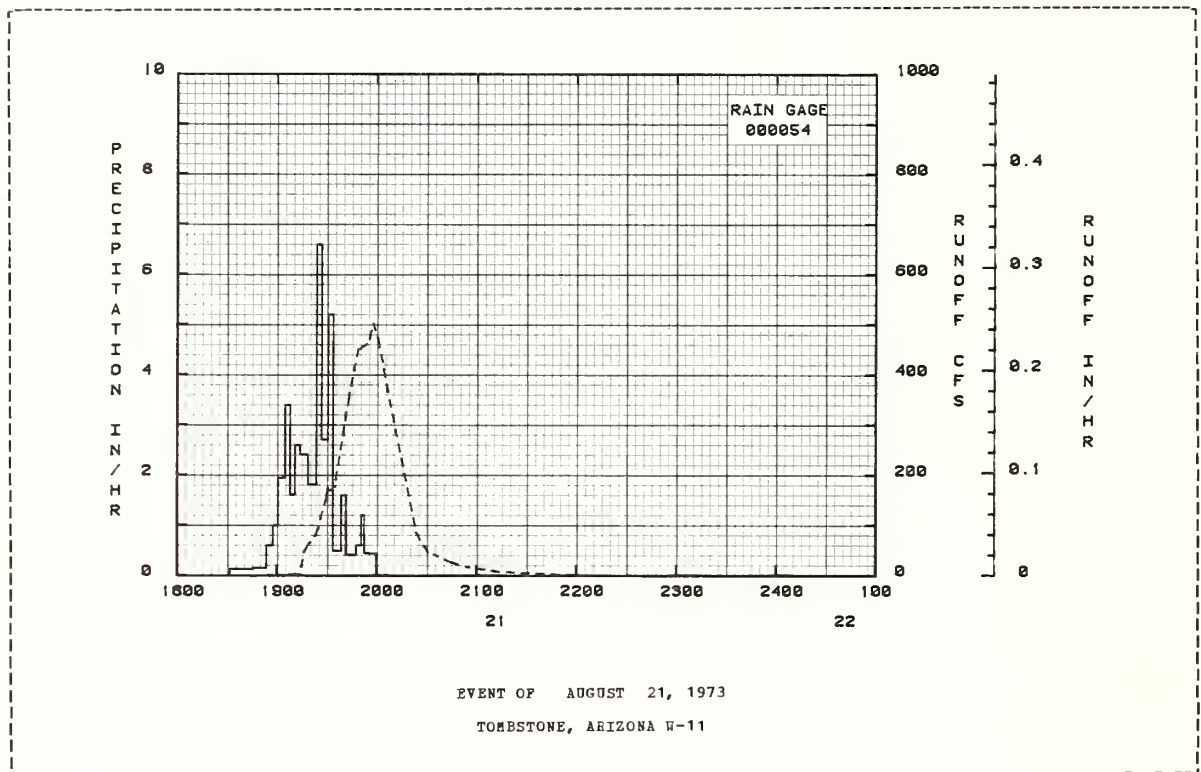
NOTES: To convert mean daily discharge values in CPS to IN/ DAY, multiply by 0.011696. STA AV values are for 7 yr only (1966, 1968-73).

1973			SELECTED RUNOFF EVENT								TOMBSTONE, ARIZONA W-11			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Pate	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)				
EVENT OF AUGUST 21, 1973														
8-21	RG 000054 0.04	0.0	8-21	RG 000054 1832	0.0	0.0	8-21	1855	0.0	0.0				
				1846	0.1286	0.03		1858	0.006	0.0				
				1854	0.1500	0.05		1901	0.006	0.0				
				1858	0.6000	0.09		1902	0.064	0.0				
				1901	0.9999	0.14		1904	0.068	0.0				
WATERSHED CONDITIONS:														
Vegetative cover: Approximately 20% of the area is dominated by desert shrubs (whitethorn, creosotebush, tarbush) with a crown spread of approximately 30% cover and an understory of grasses with basal area of less than 1%. The remaining 80% of the area supports a grass cover (black grama, curly mesquite, sideoats grama) with basal cover of about 2.5% interspersed with desert shrubs averaging less than 5% crown cover.				1905	1.9500	0.27		1910	2.224	0.0001				
				1908	3.3998	0.44		1911	2.224	0.0001				
				1911	1.6004	0.52		1914	2.026	0.0001				
				1914	2.5998	0.65		1917	50.609	0.0008				
				1919	2.3997	0.85		1920	66.140	0.0022				
				1924	1.8001	1.00		1924	83.434	0.0046				
				1927	6.5996	1.33		1930	154.497	0.0105				
				1931	2.7000	1.51		1931	175.301	0.0118				
				1934	5.1997	1.77		1932	169.129	0.0131				
				1939	0.4800	1.81		1935	176.721	0.0174				
				1942	1.5999	1.89		1944	363.877	0.0369				
				1948	0.4000	1.93		1949	449.908	0.0540				
				1951	0.6000	1.96		1954	460.916	0.0722				
				1953	1.1997	2.00		1956	472.416	0.0793				
				2000	0.4286	2.05		1957	488.579	0.0838				
								1958	502.646	0.0876				
								2001	469.062	0.0996				
								2007	364.209	0.1195				
								2024	84.376	0.1506				
								2030	50.752	0.1540				
								2031	44.955	0.1543				
								2035	40.924	0.1557				
								2037	37.584	0.1563				
								2045	24.900	0.1584				
								2055	16.295	0.1601				

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000487.

1973 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-11							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF AUGUST 21, 1973 (CONTINUED)										
							8-21	2056	15.545	0.1602
								2114	6.283	0.1618
								2159	0.0	0.1629

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000487.



TOMBSTONE, ARIZONA W-15

LOCATION: Cochise County; 3/4 miles east of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin. Lat. 31 deg. 42 min. 46 sec. N.; Long. 110 deg. 02 min. 25 sec. W.

AREA: 5912.00 acres 9.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														TOMBSTONE, ARIZONA W-15											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1973	P	0.53	1.29	3.08	0.0	0.09	0.42	2.11	1.03	0.24	0.0	0.35	0.0	9.12											
	Q	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.017											
STA AV	P	0.36	0.56	0.70	0.15	0.16	0.42	3.29	3.36	1.17	0.51	0.33	1.04	12.05											
	Q	0.0	0.0	0.002	0.0	0.0	0.003	0.032	0.114	0.013	0.0	0.0	0.0	0.164											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMOM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Honrs		Maximma Volume for Selected Time Interval						1 Day		2 Days		8 Days							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.								
1973		3-19	0.014	3-19	0.011	3-19	0.015	3-19	0.017	3-19	0.017	3-19	0.017	3-18	0.017	3-12	0.017								
MAXIMUMS FOR PERIOD OF RECORD																									
		8-10	0.211	8-10	0.144	8-10	0.180	8-19	0.200	8-19	0.200	8-19	0.230	8-19	0.250	8-19	0.250								
		1971		1971		1971		1966		1966		1966		1966		1966									

NOTES: Watershed conditions: Vegetative cover: Desert shrubs (whitethorn, creosotebush, tarbush) occupy 78% of the area with a crown spread of approximately 30% and an understory of grasses of less than 1% basal area. 22% of the area is in grass cover (black grama, tobosa grass, blue grama, sideoats grama, and curly mesquite grass) of approximately 2% basal area. For topographic, geologic, and vegetation maps, see pages 63.1-3, 63.1-4 and 63.1-5, respectively, of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226. Precipitation Data: Records began January 1965. Monthly totals Thiessen weighted averages of 15 rain gages. Runoff Data: Records began January 1965. Station averages for precipitation and runoff based on 1965-1973 record period. Temperature Data: For table of daily maximum and minimum values, see information included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1973		DAILY PRECIPITATION (inches)						TOMBSTONE, ARIZONA W-15					
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	
2	0.09E	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.03E	0.0	0.06E	0.0	0.01	0.26	0.0	0.0	0.0	0.0	
6	0.0	0.00T	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.10E	0.0	0.0	0.0	0.07E	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.88E	0.26E	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.02	0.64E	0.0	0.0	0.21	0.27E	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.11E	0.31E	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.00T	0.27E	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.01E	0.0	0.0	0.0	0.53E	0.0	0.00T	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.02	0.0	0.04	0.0	0.21E	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	1.11E	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.17E	0.0	
20	0.08S	0.26E	0.01E	0.0	0.0	0.0	0.0	0.0	0.03E	0.0	0.0	0.0	
21	0.02	0.79E	0.0	0.0	0.0	0.0	0.0	0.43E	0.0	0.0	0.0	0.0	
22	0.0	0.10E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.28E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14E	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00E	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.03E	0.0	
27	0.0	0.0	0.13S	0.0	0.0	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.02	0.0	0.0	0.0	0.0	
29	0.0		0.16E	0.0	0.0	0.0	0.0	0.05E	0.0	0.0	0.0	0.0	
30	0.08E		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.23E		0.0		0.00T		0.06	0.00T		0.0		0.0	
TOTAL	0.53	1.29	3.08	0.0	0.09	0.42	2.11	1.03	0.24	0.0	0.35	0.0	
STA AV	0.36	0.56	0.70	0.15	0.16	0.42	3.29	3.36	1.17	0.51	0.33	1.04	

NOTES: Data are Thiessen weighted averages of 15 rain gages. STA AV are based on 9 yr record period (1965-73).

1973 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA W-15												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	4.098	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.216	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.1391	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.002	0.0	0.0	0.003	0.032	0.114	0.013	0.0	0.0	0.0

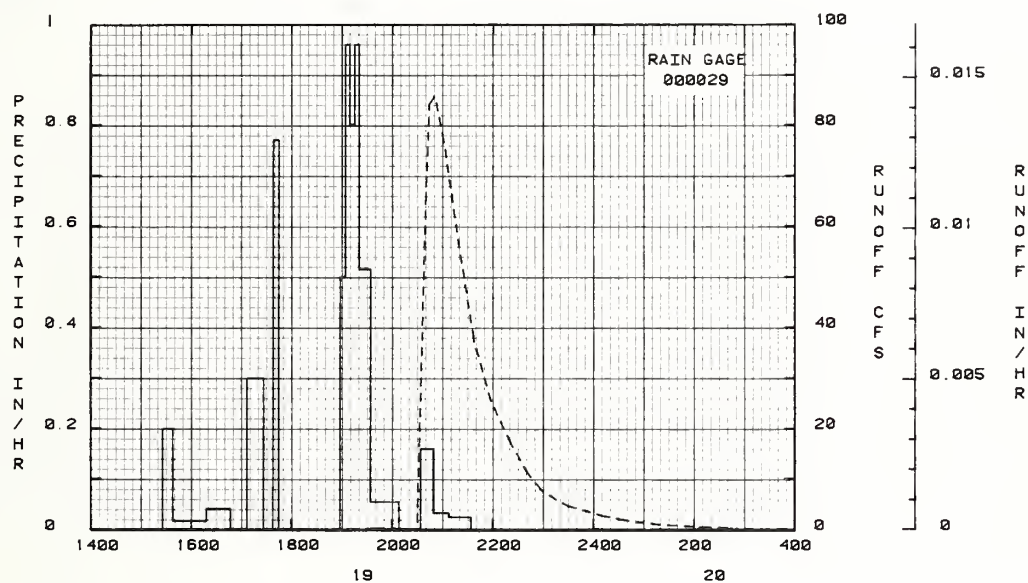
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.004026. STA AV are based on 9 yr record period (1965-1973).

1973 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA W-15											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 19 - 20, 1973											
RG 000029											
3-19	0.0	0.0	3-19	1526	0.0	0.0	3-19	1906	0.0	0.0	
				1538	0.2000	0.04		1910	0.059	0.0	
				1618	0.0150	0.05		1912	0.097	0.0	
				1647	0.0414	0.07		1920	0.097	0.0	
				1707	0.0	0.07		1930	0.163	0.0	
WATERSHED CONDITIONS:											
Vegetative cover: Desert shrubs (whitethorn, creosote-bush, tarbush) occupy 78% of area with a crown spread of approximately 30% and an understory of grasses with less than 1% basal area. 22% of the area supports a grass cover (black grama, tobosa, blue grama, sideoats grama and curly mesquite) of approximately 2% basal area.											
				1717	0.3000	0.12		1934	0.163	0.0	
				1727	0.3000	0.17		1936	0.188	0.0	
				1738	0.0	0.17		1950	0.188	0.0000	
				1745	0.7714	0.26		2010	0.066	0.0000	
				1858	0.0	0.26		2030	0.019	0.0000	
				1904	0.5000	0.31		2040	66.609	0.0010	
				1909	0.9601	0.39		2044	84.159	0.0018	
				1915	0.8000	0.47		2050	85.676	0.0032	
				1920	0.9601	0.55		2052	84.348	0.0037	
				1927	0.5143	0.61		2100	78.056	0.0055	
				1934	0.5143	0.67		2120	55.708	0.0092	
				2008	0.0529	0.70		2138	37.090	0.0116	
				2034	0.0	0.70		2158	25.378	0.0133	
				2049	0.1600	0.74		2220	17.615	0.0147	
				2108	0.0316	0.75		2240	11.447	0.0155	
				2134	0.0231	0.76		2300	7.332	0.0160	
								2330	4.568	0.0165	
							3-20	10	2.680	0.0169	
								42	1.617	0.0171	
								100	1.279	0.0172	
								120	0.907	0.0172	
								140	0.696	0.0173	
								210	0.392	0.0173	
								220	0.364	0.0173	
								230	0.304	0.0173	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168.

1973 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA W-15								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 19 - 20, 1973 (CONTINUED)											
				3-20				240	0.227	0.0173	
								244	0.227	0.0173	
								246	0.175	0.0173	
								250	0.175	0.0173	
								252	0.163	0.0173	
								310	0.084	0.0174	
								330	0.033	0.0174	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000168.



EVENT OF MARCH 19 - 20, 1973

TOMBSTONE, ARIZONA W-15

TOMBSTONE, ARIZONA WATERSHED 63.103

LOCATION: Cochise County; 2 miles north of Tombstone; Walnut Gulch, San Pedro River, Gila River, Colorado River Basin
Lat. 31 deg. 44 min. 30 sec. N.; Long. 110 deg. 03 min. 15 sec. W.

AREA: 9.10 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										TOMBSTONE, ARIZONA WATERSHED 63.103									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	0.36	1.15	2.49	0.0	0.37	0.79	3.67	0.89	0.40	0.0	0.21	0.0	10.33					
	Q	0.0	0.0	0.003	0.0	0.003	0.004	0.639	0.008	0.0	0.0	0.0	0.0	0.657					
STA AV	P	0.27	0.49	0.59	0.17	0.13	0.36	3.01	2.78	1.67	0.52	0.30	1.08	11.38					
	Q	0.0	0.0	0.000	0.0	0.000	0.013	0.170	0.318	0.148	0.024	0.0	0.006	0.679					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		7-27	1.987	7-27	0.490	7-27	0.505	7-27	0.505	7-27	0.505	7-26	0.505	7-25	0.505	7-19	0.505		
MAXIMUMS FOR PERIOD OF RECORD																			
		8-13	2.070	9- 8	0.603	9- 8	0.604	9- 8	0.604	9- 8	0.604	9- 7	0.604	9- 6	0.604	8- 4	0.814		
		1965		1970		1970		1970		1970		1970		1970		1971			

NOTES: Watershed Conditions: 1973: Vegetative cover: Entire area dominated by desert shrubs (whitethorn, creosotebush, and tarbush) with crown spread of about 25% and an understory of grasses with about 0.6% basal cover. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 63.1-3. For geologic map (p. 63.1-4) and vegetative map (p. 63.1-5) of foregoing reference. Precipitation Data: Records began January 1965. Monthly totals are values from rain gage No. 83. STA AV based on 1965-73 data. Runoff Data: Records began January 1965. STA AV based on data for the record 1965-73. Temperature Data: See table of daily maximum and minimum values included for Watershed 63.001. For long-time precipitation records, see National Weather Service records at Tombstone, Arizona.

1973		DAILY PRECIPITATION (inches)					TOMBSTONE, ARIZONA WATERSHED 63.103							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
5	0.0	0.0	0.07	0.0	0.05	0.0	0.05	0.02	0.0	0.0	0.0	0.0		
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
8	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
9	0.0	0.0	0.24	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.0	0.0	0.0	0.0	0.71	0.19	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.0	0.0	0.0		
12	0.0	0.0	0.60S	0.0	0.0	0.38	0.06	0.0	0.0	0.0	0.0	0.0		
13	0.0	0.02	0.35E	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.16	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.04	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.32	0.0	0.02	0.0	0.35	0.0	0.0	0.0		
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0		
20	0.03E	0.32M	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0		
21	0.0	0.78M	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0		
22	0.0	0.03M	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	0.27E	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.13	0.0		
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.12E	0.0	0.0	0.0	1.57	0.0	0.0	0.0	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.02	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.10E	0.0	0.0	0.0	0.02	0.01	0.0	0.0	0.0	0.0		
30	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.22	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0		
TOTAL	0.36	1.15	2.49	0.0	0.37	0.79	3.67	0.89	0.40	0.0	0.21	0.0		
STA AV	0.27	0.49	0.59	0.17	0.13	0.36	3.01	2.78	1.67	0.52	0.30	1.08		

NOTES: Data are values from rain gage No. 83. STA AV values are based on record period 1965-73.

1973 MEAN DAILY DISCHARGE (cfs) TOMBSTONE, ARIZONA WATERSHED 63.103												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.043E	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.001E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.176	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0072	0.0001	0.0	0.0	0.0	0.0
INCHES	0.0	0.0	0.003	0.0	0.003	0.004	0.639	0.008	0.0	0.0	0.0	0.0
STA AV	0.0	0.0	0.000	0.0	0.000	0.013	0.170	0.318	0.148	0.024	0.0	0.006

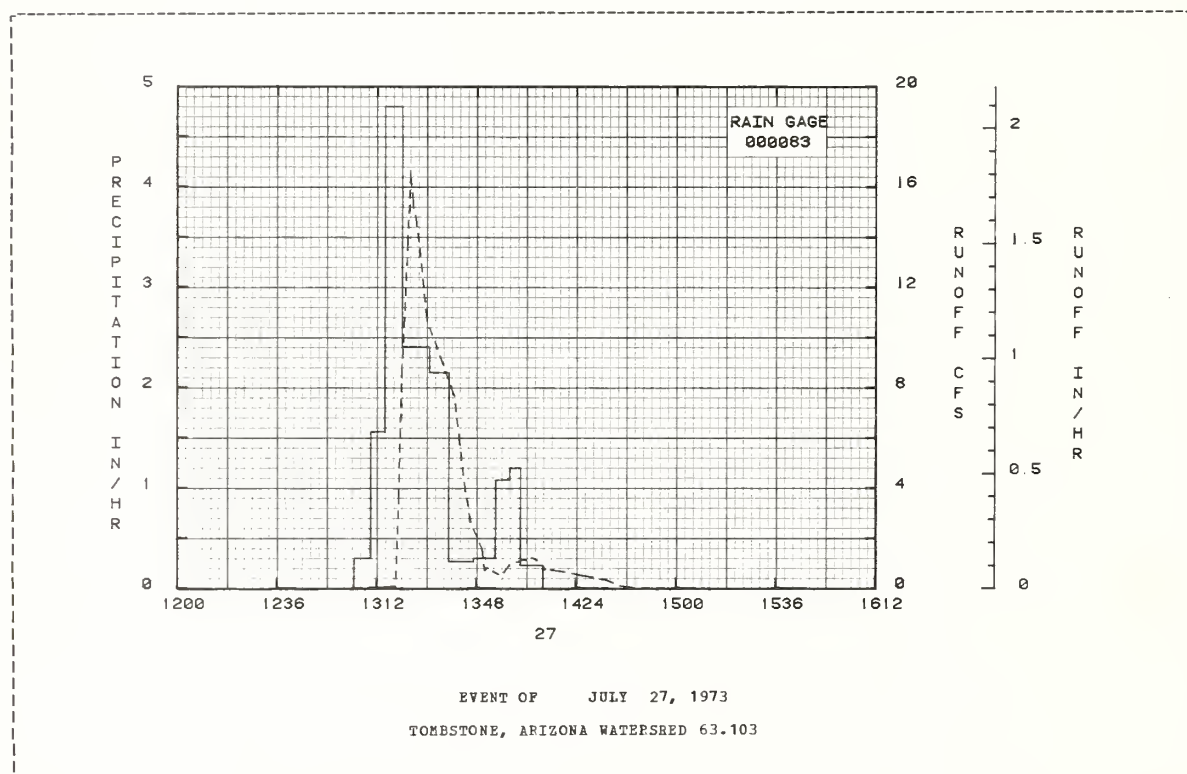
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 2.615566. STA AV based on record period 1965-73.

1973 SELECTED RUNOFF EVENT TOMBSTONE, ARIZONA WATERSHED 63.103										
ANTECEDENT CONDITIONS			RAINFALL							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Runoff	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 27, 1973										
RG 000083			RG 000083							
7-27	0.0	0.0	7-27	1304	0.0	0.0	7-27	1304	0.0	0.0
				1310	0.3000	0.03		1319	0.080	0.0021
				1315	1.5600	0.16		1320	3.648	0.0088
				1321	4.8000	0.64		1321	8.634	0.0244
				1325	2.4000	0.80		1322	10.791	0.0440
WATERSHED CONDITIONS: Vegetative cover: Entire area dominated by desert shrubs (Whitethorn, creosotebush, and tarbush) with a crown spread of about 25% and an understory of grasses with about 0.6% basal cover.				1331	2.4000	1.04		1323	13.773	0.0691
				1338	2.1429	1.29		1324	16.627	0.0993
				1347	0.2667	1.33		1325	15.140	0.1268
				1355	0.3000	1.37		1326	14.709	0.1535
				1400	1.0800	1.46		1328	12.892	0.2003
				1404	1.2000	1.54		1330	10.644	0.2390
				1412	0.2250	1.57		1335	9.194	0.3225
								1340	7.631	0.3918
								1342	5.685	0.4124
								1344	3.850	0.4264
								1346	2.607	0.4359
								1350	1.544	0.4471
								1351	0.687	0.4484
								1352	0.823	0.4499
								1354	0.662	0.4523
								1356	0.554	0.4543
								1358	0.626	0.4565
								1400	0.955	0.4600
								1405	1.127	0.4703
								1406	1.115	0.4723
								1408	1.208	0.4767
								1410	1.089	0.4806
								1412	0.879	0.4838
								1413	0.745	0.4852
								1415	0.716	0.4878

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.108982.

1973 SELECTED RUNOFF EVENT			TOMBSTONE, ARIZONA WATERSHED 63.103							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 27, 1973 (CONTINUED)										
							7-27	1420	0.641	0.4936
								1425	0.507	0.4982
								1430	0.408	0.5019
								1435	0.305	0.5047
								1440	0.083	0.5054
								1445	0.0	0.5054
								1505	0.0	0.5054
								1507	0.0	0.5054

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.108982.



SANTA ROSA, NEW MEXICO WATERSHED W-1

LOCATION: Guadalupe and Quay Counties; 30 miles east of Santa Rosa; Alamogordo Creek, Tributary of Pecos River.
Lat. 34 deg. 51 min. 53 sec. N.; Long. 104 deg. 12 min. 23 sec. W.

AREA: 42880.00 acres 67.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														SANTA ROSA, NEW MEXICO WATERSHED W-1											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1973	P	0.48	0.42	1.94	1.05	1.15	1.66	3.17	1.36	0.37	1.41	0.15	0.47	13.63											
	Q	0.001	0.001	0.001	0.002	0.000	0.000	0.009	0.004	0.0	0.0	0.0	0.0	0.018											
STA AV	P	0.22	0.20	0.53	0.57	1.08	1.63	3.75	2.90	1.31	1.42	0.50	0.32	14.44											
	Q	0.000	0.000	0.000	0.000	0.018	0.012	0.132	0.072	0.026	0.003	0.0	0.0	0.264											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge Date Rate	1 Hour Date Vol.	2 Hours Date Vol.	Maximum Volume for Selected Time Interval 6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.																
1973		8-30 0.005	7-9 0.003	7-9 0.005	7-9 0.008	7-9 0.009	7-9 0.009	7-9 0.009	7-19 0.009																
MAXIMUMS FOR PERIOD OF RECORD																									
		7-20 0.099	7-20 0.087	7-20 0.147	7-20 0.300	7-20 0.350	7-20 0.359	7-18 0.503	7-15 0.509																
		1972	1972	1972	1972	1972	1972	1972	1972																

NOTES: Watershed conditions: Grazing land, about 75% of the area is grassland, vegetation consisting of blue grama, galleta, buffalo and ring muhly. Remaining 25% of area is pinon, juniper, and various shrubs, with some grasses interspersed. Monthly precipitation values are Thiessen weighted averages of 64 rain gages. For contour map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1969, USDA Misc. Pub. 1370, p. 64.001-3. Precipitation and runoff records began in 1955. STA AV based on 6 yr (1968-73), previously published data are being reevaluated. For long-time precipitation records, see National Weather Service records at Santa Rosa, New Mexico.

1973 DAILY PRECIPITATION (inches)														SANTA ROSA, NEW MEXICO WATERSHED W-1											
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.05E	0.0	0.0	0.0	0.0	0.10E	0.0	0.02	0.0	0.0	0.0	0.0	0.0												
2	0.19E	0.0	0.0	0.78M	0.0	0.0	0.18E	0.0	0.0	0.0	0.0	0.0	0.0												
3	0.00T	0.0	0.0	0.00T	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.39E												
4	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.00T	0.0	0.01	0.0												
5	0.0	0.0	0.0	0.0	0.12E	0.00E	0.0	0.0	0.0	0.53E	0.0	0.0	0.0												
6	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.02E	0.19E	0.0	0.0	0.0	0.0												
7	0.01E	0.0	0.0	0.09S	0.00E	0.0	0.0	0.01E	0.02E	0.0	0.0	0.0	0.0												
8	0.0	0.0	0.01E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
9	0.06E	0.0	0.01S	0.0	0.0	0.0	1.07E	0.05E	0.0	0.0	0.0	0.0	0.0												
10	0.0	0.0	0.51S	0.0	0.0	0.0	0.0	0.00T	0.0	0.63E	0.0	0.0	0.0												
11	0.00E	0.0	0.0	0.01	0.02E	0.0	0.0	0.0	0.01E	0.0	0.0	0.0	0.0												
12	0.0	0.0	0.00T	0.04E	0.00E	0.62E	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
13	0.0	0.0	0.07E	0.0	0.39E	0.71E	0.30E	0.00T	0.04E	0.0	0.0	0.0	0.0												
14	0.0	0.0	0.0	0.0	0.31E	0.0	0.08E	0.0	0.0	0.0	0.0	0.0	0.0												
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.0												
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
18	0.0	0.0	0.0	0.0	0.0	0.0	0.32E	0.0	0.0	0.0	0.0	0.04E	0.0												
19	0.0	0.0	0.0	0.0	0.00T	0.0	0.00E	0.0	0.0	0.0	0.13E	0.0	0.0												
20	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.02E	0.0	0.0												
21	0.0	0.0	0.0	0.0	0.02E	0.0	0.06E	0.0	0.0	0.0	0.0	0.0	0.0												
22	0.0	0.42S	0.01E	0.0	0.12E	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0												
23	0.0	0.0	0.26S	0.0	0.0	0.00T	0.00T	0.0	0.02	0.0	0.0	0.0	0.0												
24	0.0	0.0	0.28M	0.07	0.0	0.0	0.0	0.0	0.00E	0.0	0.0	0.0	0.0												
25	0.0	0.0	0.0	0.06E	0.0	0.0	0.41E	0.0	0.0	0.0	0.0	0.0	0.0												
26	0.03S	0.0	0.0	0.0	0.0	0.0	0.41E	0.0	0.09E	0.0	0.0	0.03E	0.0												
27	0.03S	0.0	0.0	0.0	0.0	0.0	0.12E	0.0	0.0	0.0	0.0	0.0	0.0												
28	0.0	0.00T	0.02	0.0	0.0	0.20E	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
29	0.0		0.62E	0.0	0.0	0.02E	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
30	0.0		0.15E	0.0	0.06E	0.0	0.20E	1.21E	0.0	0.26E	0.0	0.0	0.0												
31	0.11E		0.00T		0.0		0.0	0.00T		0.0		0.0	0.0												
TOTAL	0.48	0.42	1.94	1.05	1.15	1.66	3.17	1.36	0.37	1.41	0.15	0.47													
STA AV	0.22	0.20	0.53	0.57	1.08	1.63	3.75	2.90	1.31	1.42	0.50	0.32													

NOTES: Daily values are Thiessen weighted average amounts from 64 rain gages. Precipitation records began in 1955. STA AV are based on 6 yr (1968-73).

1973 MEAN DAILY DISCHARGE (cfs) SANTA ROSA, NEW MEXICO WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.030	0.045	0.030	0.061	0.010	0.006	0.0	0.0	0.0	0.0	0.0	0.0
2	0.038	0.015	0.025	0.198	0.007	0.009	0.0	0.0	0.0	0.0	0.0	0.0
3	0.052	0.035	0.015	0.540	0.013	0.010	0.0	0.0	0.0	0.0	0.0	0.0
4	0.040	0.0	0.0	0.443	0.006	0.007	0.0	0.0	0.0	0.0	0.0	0.0
5	0.035	0.0	0.048	0.548	0.015	0.004	0.0	0.0	0.0	0.0	0.0	0.0
6	0.029	0.070	0.020	0.190	0.009	0.004	0.0	0.0	0.0	0.0	0.0	0.0
7	0.065	0.034	0.020	0.124	0.006	0.002	0.0	0.0	0.0	0.0	0.0	0.0
8	0.042	0.034	0.010	0.136	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.041	0.022	0.030	0.138	0.025	0.0	15.038	0.0	0.0	0.0	0.0	0.0
10	0.355	0.022	0.098	0.127	0.0	0.0	1.244	0.0	0.0	0.001	0.0	0.0
11	0.154	0.0	0.045	0.063	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0
12	0.048	0.0	0.037	0.037	0.029	0.003	0.0	0.0	0.0	0.0	0.0	0.0
13	0.046	0.105	0.024	0.078	0.007	0.113	0.0	0.0	0.0	0.0	0.0	0.0
14	0.058	0.012	0.023	0.039	0.031	0.224	0.0	0.0	0.0	0.0	0.0	0.0
15	0.057	0.025	0.015	0.029	0.076	0.019	0.0	0.0	0.0	0.0	0.0	0.0
16	0.056	0.0	0.0	0.026	0.054	0.006	0.0	0.0	0.0	0.0	0.0	0.0
17	0.053	0.052	0.040	0.025	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
18	0.042	0.0	0.014	0.015	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.057	0.016	0.024	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.080	0.020	0.013	0.013	0.045	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.040	0.025	0.014	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.024	0.086	0.010	0.015	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.045	0.080	0.026	0.019	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.022	0.074	0.103	0.017	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.021	0.061	0.118	0.015	0.046	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.041	0.030	0.034	0.014	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.066	0.051	0.027	0.012	0.005	0.0	0.438	0.0	0.0	0.0	0.0	0.0
28	0.026	0.035	0.021	0.014	0.003	0.0	0.006	0.0	0.0	0.0	0.0	0.0
29	0.043		0.159	0.014	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.030		0.276	0.013	0.001	0.0	0.0	7.580	0.0	0.0	0.0	0.0
31	0.051		0.130		0.008		0.0	0.067		0.0		0.0
MEAN	0.0559	0.0354	0.0466	0.1000	0.0142	0.0136	0.5398	0.2467	0.0	0.0	0.0	0.0
INCRS	0.001	0.001	0.001	0.002	0.000	0.000	0.009	0.004	0.0	0.0	0.0	0.0
STA AV	0.000	0.000	0.000	0.000	0.018	0.012	0.132	0.072	0.026	0.003	0.0	0.0

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000555. Runoff records began in 1955. STA AV based on 6 yr (1968-73).

1973 SELECTED RUNOFF EVENT SANTA ROSA, NEW MEXICO WATERSHED W-1									
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF JULY 9 - 10, 1973									
RG 000057			RG 000057						
7- 9	0.0	0.0	7- 9	1557	0.0	0.0	7- 9	1630	0.0
				1601	1.9501	0.13		1645	0.040
				1604	3.1998	0.29		1650	0.040
				1608	2.7000	0.47		1710	0.030
				1611	3.8009	0.66		1730	0.010
WATERSHED CONDITIONS: Grazing land, about 75% of the area is grassland, vegetation consisting of blue grama, galleta, buffalo and ring muhly. Remaining 25% of area is pinon, juniper, and various shrubs, with some grasses interspersed.				1614	2.3999	0.78		1746	0.010
				1617	1.7999	0.87		1747	4.443
				1620	0.9999	0.92		1748	37.641
				1622	1.8004	0.98		1749	70.654
				1627	0.5999	1.03		1750	103.760
				1637	0.4200	1.10		1755	147.196
				1642	0.2400	1.12		1800	165.850
				1647	0.6000	1.17		1806	175.677
				1652	0.6000	1.22		1808	175.677
				1706	0.0857	1.24		1815	164.245
				1713	0.0	1.24		1820	150.213
				1720	0.0857	1.25		1825	135.488
				1734	0.0	1.25		1830	118.996
				1745	0.1636	1.28		1840	95.440
				1758	0.0462	1.29		1850	77.741
				1823	0.0720	1.32		1900	63.969
				1844	0.0571	1.34		1910	53.425
								1916	49.365
								1919	49.365
								1925	60.328
								1930	74.654
								1935	86.345
								1945	93.138
								1950	93.138
								2000	87.459

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000231.

1973		SELECTED RUNOFF EVENT					SANTA ROSA, NEW MEXICO WATERSHED W-1				
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 9 - 10, 1973 (CONTINUED)											
							7- 9	2030	63.969	0.0060	
								2100	47.020	0.0066	
								2130	36.308	0.0071	
								2200	27.771	0.0075	
								2230	22.496	0.0078	
								2300	17.873	0.0080	
								2330	13.480	0.0082	
								2400	10.734	0.0083	
							7-10	100	6.805	0.0085	
								200	4.828	0.0087	
								300	3.403	0.0088	
								400	2.399	0.0088	
								500	1.810	0.0089	
								600	1.409	0.0089	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000231.

EVENT OF JULY 9 - 10, 1973
SANTA ROSA, NEW MEXICO WATERSHED W-1

NORTH DANVILLE, VERMONT WATERSHED W-1

LOCATION: Caledonia County, Vermont, 5 mi. NW of St. Johnsbury; Sleepers River, Connecticut River Basin.
Lat. 44 deg. 27 min. 00 sec. N.; Long. 72 deg. 04 min. 06 sec. W.

AREA: 10611.20 acres 16.58 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														NORTH DANVILLE, VERMONT WATERSHED W-1											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1973	P	5.18	2.77	3.48	6.04	7.65	12.61	4.27	4.44	6.21	3.80	5.96	9.74	72.15											
	Q	2.146	1.475	3.970	5.342	3.413	4.095	2.988	0.718	1.038	1.068	2.080	3.505	31.840											
STA AV	P	2.92	3.41	3.57	3.82	4.10	4.84	4.07	4.84	3.25	4.10	4.89	4.57	48.39											
	Q	0.932	0.902	1.682	6.011	3.214	1.232	0.775	0.556	0.450	1.109	1.530	1.463	19.858											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval 6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.								
1973		6-30	0.122	6-30	0.119	6-30	0.228	6-30	0.524	6-30	0.844	6-30	1.277	6-29	1.723	6-29	2.818								
MAXIMUMS FOR PERIOD OF RECORD																									
		6-30	0.122	6-30	0.119	6-30	0.228	6-30	0.524	6-30	0.844	6-30	1.277	6-29	1.723	4-30	4.172								
		1973		1973		1973		1973		1973		1973		1973		1972									

NOTES: Watershed conditions: Predominately hardwood forest, 64%; cultivated-16% in long hay rotations and about 1% in row crops, total 17%; pasture, largely bluegrass 15%; idle land in grass and woody plants, 3%; and homesites and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1956-59, USDA Misc. Pub. 945, p. 67.1-4. Precipitation records began January 1, 1959. Runoff records began October 1959. Part year values not included in STA AV. For long-time precipitation records, see National Weather Service records at St. Johnsbury, Vt.

1973 DAILY AIR TEMPERATURE (degrees F)														NORTH DANVILLE, VERMONT WATERSHED W-1											
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	38	30	16	-26	34	10	50	38	60	26	66	45	80	60	80	58	83	62	64	30	46	36	30	24	
2	30	18	44	16	42	26	42	32	68	47	54	34	83	60	72	66	84	64	60	34	52	40	30	13	
3	23	6	43	20	38	34	42	32	68	47	69	30	82	60	80	64	83	64	60	54	40	33	31	16	
4	34	8	32	20	45	36	44	30	50	42	60	38	78	62	80	57	80	60	68	53	33	26	35	30	
5	32	15	32	2	48	32	35	29	46	38	74	57	78	62	78	54	81	59	60	44	34	24	54	34	
6	13	-6	28	-6	38	27	38	28	50	36	74	58	76	58	74	50	70	54	54	42	26	21	55	32	
7	-2	-12	32	18	43	34	38	28	64	30	78	52	84	52	84	60	64	47	58	32	32	21	32	18	
8	-2	-22	32	16	48	34	37	24	68	30	80	48	94	62	79	62	56	44	65	28	36	28	26	11	
9	4	-26	14	-10	44	29	40	20	51	46	78	56	86	60	84	66	52	44	68	31	30	20	42	18	
10	18	2	20	-16	38	30	34	26	70	46	75	56	76	54	88	65	62	38	56	34	26	16	42	26	
11	20	2	8	-10	42	34	26	21	60	46	84	57	68	52	78	66	65	40	59	32	30	20	30	23	
12	6	-4	8	-13	54	38	30	20	58	41	84	58	64	46	78	59	58	46	61	34	36	24	26	9	
13	16	-16	20	6	42	28	32	14	50	40	70	51	71	46	74	56	60	42	72	38	40	35	30	6	
14	26	6	34	8	42	26	48	15	50	30	68	47	76	59	74	56	56	41	59	38	58	38	36	22	
15	30	20	33	22	40	30	60	22	60	28	56	44	72	55	70	56	56	50	52	34	40	34	20	10	
16	39	24	20	-4	50	35	74	27	62	38	48	42	74	48	76	53	52	41	46	34	36	22	18	10	
17	46	22	2	-14	44	36	68	38	62	34	62	38	78	44	82	52	56	34	42	34	30	21	18	8	
18	42	32	18	-18	38	30	72	36	49	42	66	34	80	47	84	56	56	42	46	32	32	15	7	-4	
19	48	27	29	2	33	30	68	38	46	40	74	46	82	50	79	54	61	34	50	26	31	10	12	-14	
20	42	10	38	26	29	17	68	27	67	41	80	49	74	56	78	50	54	36	40	34	26	14	39	4	
21	21	2	35	28	28	20	70	32	51	46	78	65	76	50	78	50	50	28	49	28	38	11	44	14	
22	36	0	33	22	34	24	76	50	50	38	80	60	76	46	72	48	50	26	54	25	40	34	14	3	
23	40	34	24	18	38	20	66	41	64	32	74	55	76	44	70	40	62	48	64	28	42	32	22	5	
24	34	16	22	11	46	16	60	39	66	36	78	56	82	47	66	41	51	44	66	36	40	30	10	-10	
25	26	10	15	2	52	22	58	40	60	44	74	55	84	52	72	36	61	38	54	35	46	31	30	-11	
26	32	22	20	-8	46	30	54	34	64	46	78	56	77	60	72	53	62	38	60	44	40	23	43	32	
27	30	18	20	-12	36	22	46	41	66	46	77	62	79	66	83	56	70	43	51	25	37	31	35	33	
28	30	22	27	-10	46	14	60	44	55	46	78	62	84	62	79	62	63	38	42	20	46	38	34	29	
29	26	0			48	28	45	32	70	55	76	66	76	58	84	56	60	33	45	26	46	32	36	24	
30	17	-12			57	26	42	29	70	54	67	62	80	53	86	66	56	33	54	37	36	30	38	18	
31	4	-22			58	28			70	52			82	54	84	62			52	32			22	16	
AV.	26	7	25	3	43	27	51	31	60	41	72	51	78	54	78	56	62	44	56	34	38	26	30	14	
MEAN	16.6		14.1		35.0		40.9		50.2		61.7		66.4		67.0		53.1		45.0		32.0		22.5		
STA AV	22	3	23	3	35	16	46	27	60	37	71	46	74	52	72	50	64	42	54	35	38	23	24	9	

NOTES: Temperature data is from R-12 station. Readings taken daily from hygrothermograph charts. STA AV based on 1960-72 record period.

1973 DAILY PRECIPITATION (inches) NORTH DANVILLE, VERMONT WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.21	0.0	0.0	0.43	0.0	0.40	0.06	0.15	0.0	0.0	1.60	0.13
2	0.07	0.80	0.05	0.53	0.11	0.0	0.29	0.32	0.0	0.11	0.36	0.0
3	0.05	0.05	0.07	0.21	0.55	0.0	0.0	0.65	0.0	1.23	0.19	0.0
4	0.29	0.15	0.17	1.04	0.0	0.29	0.06	0.22	0.01	0.01	0.0	0.0
5	0.35	0.08	0.0	0.52	0.04	0.06	0.03	0.02	0.0	1.00	0.0	0.35
6	0.10	0.0	0.0	0.0	0.11	0.0	0.0	0.05	2.40	0.0	0.14	0.45
7	0.0	0.0	0.04	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.21	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0
9	0.03	0.03	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.05	0.61
10	0.15	0.0	0.0	0.90	0.01	0.0	0.66	0.39	0.0	0.0	0.07	0.05
11	0.12	0.0	0.21	0.30	0.40	0.33	0.05	0.55	0.05	0.0	0.0	0.0
12	0.03	0.0	0.26	0.05	0.29	0.66	0.0	0.06	0.0	0.0	0.0	0.0
13	0.0	0.17	0.0	0.0	0.11	0.29	0.0	0.0	0.0	0.05	0.0	0.11
14	0.08	0.0	0.0	0.0	0.0	0.15	1.05	0.0	0.48	0.13	0.0	1.39
15	0.07	0.63	0.18	0.0	0.30	0.0	0.05	0.0	0.21	0.13	0.76	0.0
16	0.0	0.04	0.0	0.0	0.26	2.17	0.0	0.0	0.04	0.32	0.75	0.09
17	0.0	0.0	1.54	0.0	0.0	0.04	0.0	0.0	0.0	0.07	0.13	1.49
18	0.0	0.0	0.21	0.0	0.26	0.0	0.0	0.0	1.59	0.0	0.03	0.11
19	0.21	0.0	0.25	0.0	0.38	0.0	0.0	0.0	0.01	0.0	0.0	0.0
20	1.37	0.02	0.11	0.0	0.09	0.0	0.11	0.0	0.05	0.15	0.0	0.37
21	0.0	0.21	0.0	0.0	2.18	0.93	0.0	0.0	0.0	0.0	0.0	2.85
22	0.50	0.17	0.0	0.73	0.36	0.65	0.0	0.29	1.19	0.0	0.26	0.05
23	0.37	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.15
24	0.12	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.04	0.0	0.26	0.02
25	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.02	0.0	0.14	0.07
26	0.0	0.0	0.13	0.0	0.0	0.0	0.15	0.04	0.0	0.0	0.0	0.39
27	0.0	0.0	0.0	0.35	0.0	0.14	1.17	0.0	0.11	0.0	0.20	0.71
28	0.12	0.0	0.0	0.60	0.61	0.07	0.37	1.05	0.0	0.0	0.40	0.20
29	0.70	0.0	0.0	0.32	0.19	1.55	0.22	0.0	0.0	0.02	0.19	0.0
30	0.21	0.0	0.0	0.06	0.0	4.11	0.0	0.65	0.0	0.58	0.33	0.0
31	0.03	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.15
TOTAL	5.18	2.77	3.48	6.04	7.65	12.61	4.27	4.44	6.21	3.80	5.96	9.74
STA AV	2.92	3.41	3.57	3.82	4.10	4.84	4.07	4.84	3.25	4.10	4.89	4.57

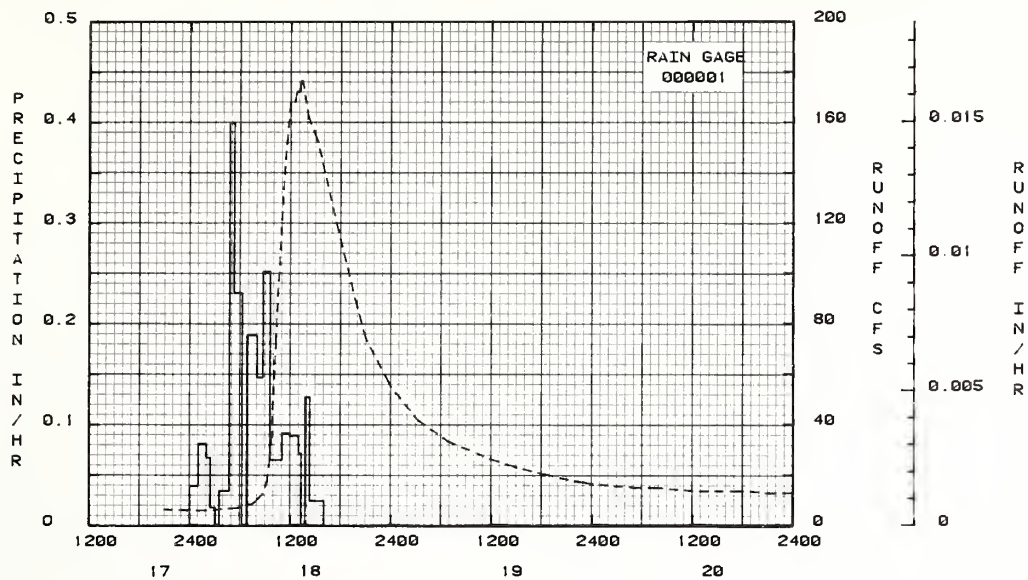
NOTES: Daily precipitation values from rain gage R-01. All precipitation is rain except for the months of January, February, and December during which all precipitation is snow or rain on snow. STA AV based on 15 yr (1959-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) NORTH DANVILLE, VERMONT WATERSHED W-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	68.08E	21.39	10.46	124.72	42.84	53.70	211.66	7.87	6.96	7.59	46.81	28.51
2	47.86	23.53	10.46	135.19	41.52	48.28	143.15	14.96	5.55	7.27	63.92	23.21
3	26.25	102.87E	10.60	91.76	61.15	31.12	115.12	12.58	4.80	39.70	58.50	23.35
4	24.42	78.01	12.24	84.55	65.37	32.49	78.94	44.31	4.31	37.70	25.38	30.01
5	22.17	40.67E	18.10	93.39	41.23	36.51	59.08	13.99	3.90	53.03	18.70	49.08E
6	14.82E	30.66	17.75	73.59	35.95	29.11	43.98	9.93	43.88	35.91	15.81	76.12
7	16.65E	31.11	17.14	64.82	30.63	25.84	35.94	8.94	18.38	19.26	14.75	33.60
8	15.79	27.69	40.53	55.90	27.27	21.40	30.57	7.65	9.03	15.22	14.85	21.91
9	14.80	22.90	50.13	48.45	46.35	18.24	25.78	7.09	7.41	13.28	14.78	27.16
10	15.64	21.29	33.43	46.00	43.86	15.90	23.02	8.01	6.45	12.32	12.60	56.95
11	14.71	19.51	31.96	43.96	53.55	14.11	58.82	31.72	5.88	11.49	12.48	33.15
12	14.03	17.02	85.44	39.99	50.82	29.56	37.48	12.77	5.33	11.21	12.59	22.74E
13	13.33	17.17	102.37	38.29	55.18	55.54	26.49E	8.88	4.41	10.77	14.06	15.53E
14	13.06	16.04	59.38	40.95	34.88	33.34	99.20	7.48	4.71	11.65	17.03	79.94
15	13.34	15.67	48.84	50.58E	29.96	21.73	72.75	7.18	13.81	11.00	36.26	58.03
16	13.34	15.37	73.42	80.13E	55.25	174.44	53.17	6.68	9.28	13.33	104.13	26.40E
17	13.50	14.44	150.95	138.68	32.27	93.99	31.60	5.71	6.89	14.27	36.94	19.22
18	16.77	13.57E	167.93	124.12	32.29	40.48	20.89	5.22	70.99	11.89	25.38	18.37E
19	21.40	12.62	74.64	129.93	43.52	30.63	17.20	4.58	28.72	10.81	19.78	15.38E
20	80.80E	12.48	57.13	101.75	38.45	24.74	15.42	4.13	13.89	11.12	19.22	16.48
21	69.87	13.08	50.34E	92.65	150.12	29.12	15.73	3.74	10.86	11.28	16.24	301.83E
22	42.85	14.19	46.13	141.95	109.74	116.25	12.37	9.53	35.15	10.30	33.00	79.88E
23	106.19	14.71	44.60	115.66	55.55	51.81	10.12	8.10	54.58	9.50	28.58	50.49E
24	62.51	13.86	45.85	69.82	40.97	33.92	9.27	5.23	20.39	9.36	23.15	49.60E
25	35.01	13.14	54.69	55.63	35.38	33.09	8.73	4.17	15.72	9.03	48.97	49.45E
26	30.71	12.71	82.55	46.16	31.85	34.49	9.99	4.15	12.38	9.01	26.54	55.57E
27	29.07	11.50E	73.20	43.36	28.41	25.13	12.11	4.31	10.78	8.68	28.39	112.99E
28	27.56	10.49E	58.98	79.39	42.75	31.40	17.82	24.31	10.49	8.04	55.16	72.87E
29	25.70		60.07	76.36	62.76	76.17	16.29	8.25	9.21	8.00	49.79	44.93E
30	23.83		76.30	53.74	38.32	563.03	10.83	7.06	8.48	16.15	33.27	37.47E
31	22.68		104.33		63.40		8.66	11.54		18.04		32.43E
MEAN	30.862	23.488	57.093	79.380	49.082	60.851	42.971	10.325	15.421	15.361	30.902	50.408
INCHES	2.146	1.475	3.970	5.342	3.413	4.095	2.988	0.718	1.038	1.068	2.080	3.505
STA AV	0.932	0.902	1.682	6.011	3.214	1.232	0.775	0.556	0.450	1.109	1.530	1.463

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.002243. STA AV based on 14 yr (1960-73) record period.

1973 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 17 - 20, 1973										
RG 000001			RG 000001							
9-17	0.0	0.014	9-17	2400	0.0	0.0	9-17	2059	6.197	0.0
			9-18	101	0.0393	0.04		2400	5.923	0.0017
				200	0.0814	0.12	9-18	200	5.923	0.0028
				227	0.0667	0.15		559	7.063	0.0052
				302	0.0171	0.16		737	8.662	0.0064
WATERSHED CONDITIONS: Forest land, 64%; hay, 16%; pastured land, 15%; idle land with dense grass and brush growth, 3%; seeded to corn, 1%; and homesites, 1%.				333	0.0	0.16		845	12.478	0.0076
				443	0.0343	0.20		916	17.170	0.0083
				516	0.4000	0.42		936	25.988	0.0089
				616	0.2300	0.65		949	37.117	0.0096
				652	0.0	0.65		1007	61.300	0.0110
				802	0.1886	0.87		1016	73.093	0.0119
				847	0.1467	0.98		1040	100.579	0.0151
				937	0.2520	1.19		1110	133.569	0.0206
				1101	0.0643	1.28		1133	152.237	0.0257
				1200	0.0915	1.37		1200	168.252	0.0325
				1301	0.0885	1.46		1230	168.252	0.0404
				1318	0.0706	1.48		1245	172.409	0.0444
				1347	0.0	1.48		1303	172.409	0.0491
				1420	0.1273	1.55		1315	176.628	0.0524
				1601	0.0238	1.59		1324	176.628	0.0549
								1406	162.132	0.0660
					1514	152.237	0.0826			
					1744	116.364	0.1140			
					1959	86.171	0.1353			
					2106	73.093	0.1436			
					2400	54.820	0.1610			
					317	41.373	0.1757			
					652	33.139	0.1882			
					1200	25.988	0.2024			
					1459	22.801	0.2092			
					1828	19.864	0.2161			
					2214	17.170	0.2226			
					2400	16.158	0.2254			
					500	14.710	0.2326			
					730	14.710	0.2360			
					1200	13.344	0.2419			
					1759	13.344	0.2494			
					2100	12.478	0.2530			
					2400	12.478	0.2565			

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000935. For 30-day antecedent rainfall and runoff, see tables of daily values.



EVENT OF SEPTEMBER 17 - 20, 1973
NORTH DANVILLE, VERMONT WATERSHED W-1

NORTH DANVILLE, VERMONT WATERSHED W-3

LOCATION: Caledonia County, Vermont; 7.5 mi. NW of St. Johnsbury; Pope Brook, Sleepers River, Connecticut River Basin.
Lat. 44 deg. 28 min. 35 sec. N.; Long. 72 deg. 07 min. 33 sec. W.

AREA: 2067.00 acres 3.23 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)								NORTH DANVILLE, VERMONT WATERSHED W-3									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	5.18	2.77	3.48	6.04	7.65	12.61	4.27	4.44	6.21	3.80	5.96	9.74	72.15			
	Q	2.160	1.710	4.241	6.610	4.193	5.217	3.338	1.187	1.508	1.693	2.526	4.855	39.238			
STA AV	P	2.92	3.41	3.57	3.82	4.10	4.84	4.07	4.84	3.25	4.10	4.89	4.57	48.39			
	Q	1.087	0.958	1.690	6.402	4.450	1.832	1.181	0.923	0.763	1.180	1.567	1.618	23.652			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6-30	0.180	6-30	0.176	6-30	0.348	6-30	0.758	6-30	1.248	6-30	1.765	6-29	2.225	6-29	3.328
MAXIMUMS FOR PERIOD OF RECORD																	
		6-30	0.180	6-30	0.176	6-30	0.348	6-30	0.758	6-30	1.248	6-30	1.765	6-29	2.225	4-30	5.631
		1973		1973		1973		1973		1973		1973		1973		1972	

NOTES: Watershed conditions: Forest, predominantly hardwoods, 67%; pasture of mostly bluegrass, 19%; cultivated land consisting of clover, orchard grass, and timothy hay with very small area in row crops, 11%; and idle land in tall grasses and woody plants, 3%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, USDA Misc. Pub. 994, p. 67.3-5. Precipitation records began January 1, 1959. Runoff records began January 1, 1960. For long-time precipitation records, see National Weather Service records at St. Johnsbury, Vt.

1973 DAILY PRECIPITATION (inches)													
NORTH DANVILLE, VERMONT WATERSHED W-3													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.21	0.0	0.0	0.43	0.0	0.40	0.06	0.15	0.0	0.0	1.60	0.13	
2	0.07	0.80	0.05	0.53	0.11	0.0	0.29	0.32	0.0	0.11	0.36	0.0	
3	0.05	0.05	0.07	0.21	0.55	0.0	0.0	0.65	0.0	1.23	0.19	0.0	
4	0.29	0.15	0.17	1.04	0.0	0.29	0.06	0.22	0.01	0.01	0.0	0.0	
5	0.35	0.08	0.0	0.52	0.04	0.06	0.03	0.02	0.0	1.00	0.0	0.35	
6	0.10	0.0	0.0	0.0	0.11	0.0	0.0	0.05	2.40	0.0	0.14	0.45	
7	0.0	0.0	0.04	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.21	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	
9	0.03	0.03	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.05	0.61	
10	0.15	0.0	0.0	0.90	0.01	0.0	0.66	0.39	0.0	0.0	0.07	0.05	
11	0.12	0.0	0.21	0.30	0.40	0.33	0.05	0.55	0.05	0.0	0.0	0.0	
12	0.03	0.0	0.26	0.05	0.29	0.66	0.0	0.06	0.0	0.0	0.0	0.0	
13	0.0	0.17	0.0	0.0	0.11	0.29	0.0	0.0	0.0	0.05	0.0	0.11	
14	0.08	0.0	0.0	0.0	0.0	0.15	1.05	0.0	0.48	0.13	0.0	1.39	
15	0.07	0.63	0.18	0.0	0.30	0.0	0.05	0.0	0.21	0.13	0.76	0.0	
16	0.0	0.04	0.0	0.0	0.26	2.17	0.0	0.0	0.04	0.32	0.75	0.09	
17	0.0	0.0	1.54	0.0	0.0	0.04	0.0	0.0	0.0	0.07	0.13	1.49	
18	0.0	0.0	0.21	0.0	0.26	0.0	0.0	0.0	1.59	0.0	0.03	0.11	
19	0.21	0.0	0.25	0.0	0.38	0.0	0.0	0.0	0.01	0.0	0.0	0.0	
20	1.37	0.02	0.11	0.0	0.09	0.0	0.11	0.0	0.05	0.15	0.0	0.37	
21	0.0	0.21	0.0	0.0	2.18	0.93	0.0	0.0	0.0	0.0	0.0	2.85	
22	0.50	0.17	0.0	0.73	0.36	0.65	0.0	0.29	1.19	0.0	0.26	0.05	
23	0.37	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.15	
24	0.12	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.04	0.0	0.26	0.02	
25	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.02	0.0	0.14	0.07	
26	0.0	0.0	0.13	0.0	0.0	0.0	0.15	0.04	0.0	0.0	0.0	0.39	
27	0.0	0.0	0.0	0.35	0.0	0.14	1.17	0.0	0.11	0.0	0.20	0.71	
28	0.12	0.0	0.0	0.60	0.61	0.07	0.37	1.05	0.0	0.0	0.40	0.20	
29	0.70	0.0	0.0	0.32	0.19	1.55	0.22	0.0	0.0	0.02	0.19	0.0	
30	0.21	0.0	0.06	0.0	0.0	4.11	0.0	0.65	0.0	0.58	0.33	0.0	
31	0.03	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0	0.15		
TOTAL	5.18	2.77	3.48	6.04	7.65	12.61	4.27	4.44	6.21	3.80	5.96	9.74	
STA AV	2.92	3.41	3.57	3.82	4.10	4.84	4.07	4.84	3.25	4.10	4.89	4.57	

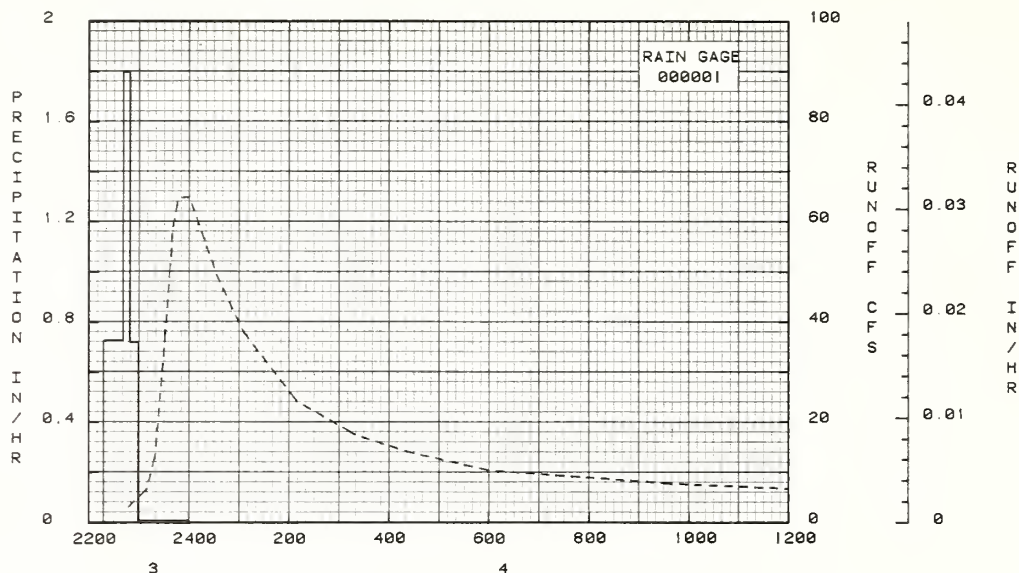
NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-01. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 15 yr (1959-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) NORTH DANVILLE, VERMONT WATERSHED W-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	12.54	5.23	3.48	29.37	11.33	13.10	41.21	3.02	2.23	2.79	11.74	6.49
2	6.40	6.49	3.30	29.21	11.00	11.55	24.82	5.15	1.99	2.79	13.27	5.89
3	5.41E	17.01	3.29	20.23	14.44	8.69	19.12	5.13	1.83	11.62	12.21	5.79
4	5.43E	8.20	3.63	19.58	13.08	9.33	16.40	10.83	1.71	7.06	6.20	5.95
5	4.72	6.55E	4.47	19.22	10.10	9.26	14.05	4.06	1.66	14.27	5.16	10.45
6	4.54E	6.58E	4.09	15.16	9.24	8.10	11.35	3.32	18.95	7.62	4.88	13.90
7	4.52E	6.39	3.89	14.15	8.07	7.76	10.03	3.05	4.84	5.25	4.72	7.75
8	4.35E	5.81	8.38	12.90	7.90	6.51	8.85	2.71	2.93	4.59	4.72	6.36
9	4.03	5.22E	7.20	11.72	12.41	5.72	7.76E	2.54	2.57	4.29	4.69	8.31
10	4.03	5.60E	5.64	11.28	10.02	4.97	7.27E	3.51	2.26	4.16	4.38	11.70
11	3.97	4.97	5.93	10.46	12.27	4.80	12.29	8.66	2.15	4.03	4.35	8.08
12	3.76	4.87	15.50	9.63	10.64	9.00	7.62E	3.49	2.01	3.97	4.35	6.46
13	3.57	4.87	15.55	9.32	11.53	9.99	6.76E	2.84	1.88	3.82	4.52	5.77
14	3.57	4.72	9.93	9.86	8.63	7.10	19.37	2.64	2.19	4.14	4.98	17.82
15	3.57	4.69	8.89	11.92	8.23	5.59	8.38	2.66	4.35	3.87	9.02	11.19
16	3.57	4.42	13.06	19.51	12.18	35.23	6.75	2.43	2.78	5.63	18.33	7.71
17	3.72	4.19	34.52	33.32	8.03	14.91	5.73	2.19	2.26	4.83	7.49	8.25
18	4.43	4.17	33.39	30.13	8.41	8.84	5.18	2.07	16.21	4.21	6.21	7.35
19	4.98	4.03	15.71	31.88	9.06	7.67	4.76	1.92	5.49	3.88	5.66	6.38
20	15.85	4.03	12.83E	25.39	7.87	6.98	4.99	1.82	3.66	4.06	5.31	6.47
21	7.12E	4.03	11.86E	23.87	31.96	11.09	4.80	1.75	3.22	3.91	4.90	78.16
22	6.61E	4.03	10.64	38.39	23.85	19.86	4.07	2.19	9.29	3.67	8.32	23.56
23	16.29	4.03	10.24	27.47	13.28	12.35	3.68	2.09	9.46	3.55	6.83	15.73
24	9.06	3.91	10.17	18.82	10.86	9.23	3.43	1.77	4.74	3.38	6.05	11.72
25	7.04	3.72	11.95	15.50	9.88	9.27	3.11	1.65	4.13	3.29	10.26	12.12
26	6.35	3.57	17.21	13.31	9.42	10.57	3.59	1.68	3.65	3.29	6.37	17.54
27	5.98	3.57	14.76	12.57	8.74	7.68	6.28	1.67	3.39	3.24	7.34	33.49
28	5.81	3.57	13.12	19.57	12.13	8.34	5.57	7.03	3.30	3.15	10.60	22.33
29	5.33		13.68	17.01	12.65	17.01	5.74	2.21	3.04	3.03	9.33	15.24
30	5.87		18.08	13.32	8.90	152.55	3.68	3.44	2.79	5.25	7.17	12.70
31	5.17E		23.91		18.05		3.18	3.57		4.43		10.99
MEAN	6.052	5.303	11.880	19.135	11.746	15.101	9.350	3.326	4.366	4.743	7.312	13.600
INCHES	2.160	1.710	4.241	6.610	4.193	5.217	3.338	1.187	1.508	2.526	4.855	
STA AV	1.087	0.958	1.690	6.402	4.450	1.832	1.181	0.923	0.763	1.180	1.567	1.618

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.011515. STA AV based on 14 yr (1960-73) record period.

1973 SELECTED RUNOFF EVENT NORTH DANVILLE, VERMONT WATERSHED W-3													
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF AUGUST 3 - 4, 1973													
RG 000001			RG 000001										
8- 3	0.0	0.041	8- 3	2218	0.0	0.0	8- 3	2248	3.289	0.0			
				2241	0.7304	0.28		2310	6.849	0.0009			
				2249	1.8000	0.52		2320	13.807	0.0017			
				2259	0.7200	0.64		2332	38.513	0.0042			
				2400	0.0098	0.65		2337	50.182	0.0060			
WATERSHED CONDITIONS: 67% forest land; 19% pastured land; 11% hay and 3% idle land with dense grass and brush growth.								2340	57.687	0.0073			
								2346	64.027	0.0102			
								2352	64.970	0.0123			
								2400	64.970	0.0175			
								8- 4	33	49.391	0.0325		
									106	37.851	0.0441		
									210	24.136	0.0599		
									319	17.497	0.0714		
									421	14.151	0.0793		
									600	10.368	0.0890		
							931	7.762	0.1043				
							1200	6.632	0.1128				

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0004798. For 30-day antecedent rainfall and runoff, see tables of daily amounts.



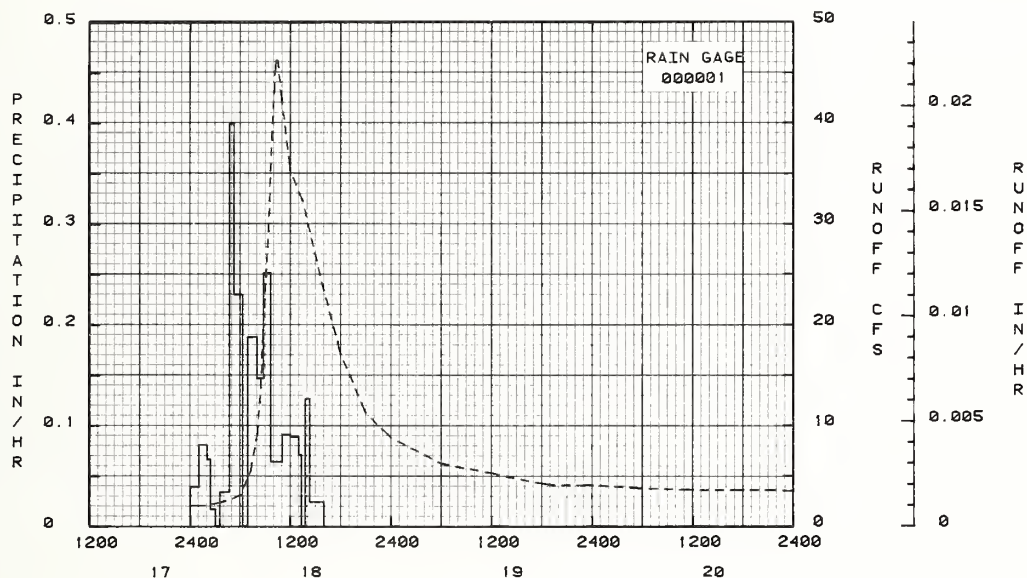
EVENT OF AUGUST 3 - 4, 1973
NORTH DANVILLE, VERMONT WATERSHED W-3

1973 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-3						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF SEPTEMBER 17 - 21, 1973									
9-17	RG 000001	0.026	9-17	2400	0.0	0.0	9-17	2400	2.073
	0.0		9-18	101	0.0393	0.04	9-18	146	2.073
				200	0.0814	0.12		413	2.518
				227	0.0667	0.15		601	3.152
				302	0.0171	0.16		717	5.610
				333	0.0	0.16		803	9.268
				443	0.0343	0.20		829	13.807
				516	0.4000	0.42		845	19.558
				616	0.2300	0.65		923	29.361
				652	0.0	0.65		948	38.513
				802	0.1886	0.87		1007	44.089
				847	0.1467	0.98		1019	46.312
				937	0.2520	1.19		1030	46.312
				1101	0.0643	1.28		1101	41.939
				1200	0.0915	1.37		1200	35.279
				1301	0.0885	1.46		1329	32.231
				1318	0.0706	1.48		1546	24.136
				1347	0.0	1.48		1759	17.103
				1420	0.1273	1.55		2059	11.244
				1601	0.0238	1.59		2400	8.747
							9-19	559	6.210
								1200	5.231
								1759	4.191
								1932	4.031
								2400	4.031
							9-20	559	3.723
								1200	3.575
								1800	3.575
								2154	3.575
								2400	3.430

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0004798. For 30-day antecedent rainfall and runoff, see tables of daily amounts.

1973 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-3								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF SEPTEMBER 17 - 21, 1973 (CONTINUED)											
							9-21	559	3.430	0.3018	
								1200	3.289	0.3115	
								1759	3.018	0.3206	
								2252	2.888	0.3275	
								2400	2.888	0.3291	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0004798. For 30-day antecedent rainfall and runoff, see tables of daily amounts.



EVENT OF SEPTEMBER 17 - 21, 1973
NORTH DANVILLE, VERMONT WATERSHED W-3

NORTH DANVILLE, VERMONT WATERSHED W-4

LOCATION: Caledonia County, Vermont; 4.7 mi. NW of St. Johnsbury; Morrill Brook, Sleepers River, Connecticut River Basin. Lat. 44 deg. 27 min. 27 sec. N.; Long. 72 deg. 03 min. 46 sec. W.

AREA: 10752.00 acres 16.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							NORTH DANVILLE, VERMONT WATERSHED W-4												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	3.08	1.49	2.39	3.55	5.51	10.20	2.72	4.33	4.21	2.81	4.03	7.94	52.26					
	Q	1.965	1.460	4.090	5.450	3.753	4.575	2.888	1.005	1.417	1.479	2.152	4.230	34.464					
STA AV	P	2.00	2.23	2.46	2.94	3.34	3.83	3.29	4.12	2.51	3.26	3.69	3.60	37.29					
	Q	0.919	0.814	1.733	5.638	4.069	1.630	0.921	0.690	0.566	0.997	1.432	1.426	20.834					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6-30	0.120	6-30	0.119	6-30	0.231	6-30	0.554	6-30	0.878	6-30	1.269	6-29	1.645	6-29	2.655		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-30	0.120	6-30	0.119	6-30	0.231	6-30	0.554	6-30	0.878	6-30	1.269	6-29	1.645	4-14	4.323		
		1973		1973		1973		1973		1973		1973		1973		1969			

NOTES: Watershed conditions: Forest, 74%; cultivated, 12%; pasture, 12%; and idle, 2%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pnt. 1262 p. 67.4-19. Precipitation records began 1959. Ennoff records began January 1, 1960. For long-time precipitation records, see National Weather Service records at St. Johnsbury, Vt.

1973 DAILY PRECIPITATION (inches)													
NORTH DANVILLE, VERMONT WATERSHED W-4													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.24	0.0	0.0	0.22	0.03	0.19	0.33	0.12	0.0	0.0	0.99	0.04	
2	0.0	0.66	0.06	0.33	0.09	0.0	0.11	0.33	0.0	0.10	0.16	0.01	
3	0.04	0.05	0.0	0.12	0.53	0.0	0.0	0.71	0.0	0.95	0.06	0.0	
4	0.13	0.0	0.13	0.60	0.0	0.25	0.0	0.10	0.0	0.0	0.0	0.0	
5	0.14	0.04	0.01	0.55	0.05	0.04	0.0	0.0	0.0	0.70	0.0	0.35	
6	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.03	0.30	
7	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.11	0.31	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
9	0.04	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.38	
10	0.10	0.0	0.05	0.50	0.03	0.0	0.38	0.25	0.0	0.0	0.0	0.02	
11	0.01	0.0	0.20	0.0	0.31	0.26	0.08	0.36	0.04	0.0	0.0	0.0	
12	0.0	0.0	0.14	0.0	0.22	0.58	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.05	0.03	0.0	0.08	0.64	0.0	0.0	0.0	0.02	0.0	0.09	
14	0.04	0.0	0.0	0.0	0.0	0.13	0.95	0.0	0.32	0.15	0.0	1.20	
15	0.02	0.44	0.17	0.0	0.26	0.0	0.0	0.02	0.18	0.09	0.65	0.0	
16	0.0	0.04	0.0	0.0	0.09	1.89	0.0	0.0	0.0	0.30	0.70	0.06	
17	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40	
18	0.0	0.0	0.13	0.0	0.15	0.0	0.0	0.0	1.42	0.0	0.0	0.07	
19	0.10	0.0	0.07	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.70	0.0	0.03	0.0	0.02	0.0	0.15	0.0	0.04	0.10	0.0	0.40	
21	0.0	0.08	0.0	0.0	1.56	0.55	0.0	0.0	0.0	0.0	0.0	2.14	
22	0.41	0.02	0.0	0.46	0.19	0.80	0.0	0.90	0.96	0.0	0.25	0.0	
23	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	
24	0.05	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.25	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.10	0.06	
26	0.0	0.0	0.06	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.39	
27	0.0	0.0	0.0	0.25	0.0	0.32	0.44	0.0	0.05	0.0	0.35	0.65	
28	0.12	0.0	0.0	0.40	0.56	0.17	0.03	1.09	0.0	0.0	0.25	0.15	
29	0.44	0.0	0.0	0.10	0.14	0.97	0.10	0.0	0.0	0.0	0.05	0.0	
30	0.10	0.0	0.0	0.02	0.0	3.12	0.0	0.45	0.0	0.40	0.16	0.0	
31	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0	0.13	
TOTAL	3.08	1.49	2.39	3.55	5.51	10.20	2.72	4.33	4.21	2.81	4.03	7.94	
STA AV	2.00	2.23	2.46	2.94	3.34	3.83	3.29	4.12	2.51	3.26	3.69	3.60	

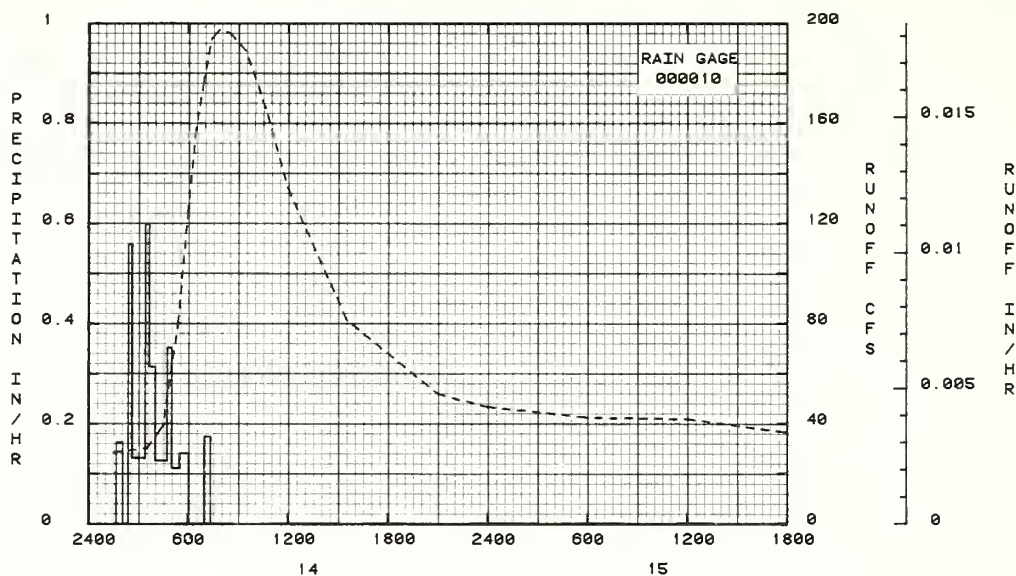
NOTES: For temperature data see table of daily maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage B-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 15 yr (1959-1973) record period.

1973	MEAN DAILY DISCHARGE (cfs)					NORTH DANVILLE, VERMONT WATERSHED W-4						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	63.77	21.94	14.30	116.30	51.26	59.93	190.73	10.65	9.78	12.23	44.82	29.60
2	48.49	23.45	14.30	138.24	49.65	55.21	116.93	19.65E	7.83	11.80	60.98	25.49E
3	27.97	66.70	14.34	101.45	62.06	38.93	93.73	18.75E	7.00	48.93	50.73	24.46E
4	25.32	51.46	15.28	92.48	67.59	41.17	78.04	48.71	6.15	45.52	28.29	27.04
5	25.04	34.18	19.41	104.38	48.30	49.19	68.30	23.67	5.61	61.68	22.59	41.69
6	19.33	27.35	19.92	86.49	44.49	38.36	55.42	15.66	73.53	44.01	20.30	73.11
7	18.76	29.01	19.10	78.68	38.78	34.86	47.45	14.23	32.44	26.08	19.63	37.04
8	18.80	27.40	38.30	69.71	35.21	29.46	40.96	12.08	15.18	21.46	19.89	27.81E
9	17.58	25.15	48.20	61.38	54.08	26.31	34.73	10.83	11.57	20.44	19.35	31.05
10	18.36	22.40	33.35	60.06	53.29	23.20	32.09	11.27	10.13	18.57	17.31	53.20
11	17.95	22.21	31.61	56.58	56.52	21.54	53.81	36.96	8.90	17.95	17.14	35.80
12	17.05	20.19	80.39	25.10	53.02	40.41	32.85	17.88	8.30	17.34	17.36	28.40E
13	16.21	20.46	100.56	20.22	55.93	70.84	29.80	12.45	7.44	16.80	18.44	23.26E
14	15.89	20.45	57.32	50.40	41.82	44.24	91.19	10.83	7.54	17.56	20.10	77.47
15	15.53	20.49	49.14	58.65	36.84	30.32	40.04	10.02	20.21	16.68	35.79	57.68
16	15.40	20.06	69.87	75.69	56.82	167.34	31.20	9.75	13.90	22.52	92.01	32.25
17	15.44	19.15E	150.32	113.69	38.20	92.51	24.95	8.23	10.53	22.71	37.43	26.11
18	16.90	18.31E	169.65	110.70	36.78	47.12	20.76	7.45	85.11	18.96	28.49E	28.41
19	20.44	18.15	80.62	116.37	42.34	39.51	18.96	6.66	37.25	16.57	24.40E	25.15
20	59.39	17.79	65.83	99.24	37.15	34.66	18.32	5.96	20.21	17.88	22.82E	28.14E
21	45.39	17.74	61.24E	93.19	141.60	36.96	21.96	5.49E	16.52	18.38	23.35E	298.10
22	30.76	18.00	56.17	132.53	122.21	101.89	16.32	14.50	42.26	15.88	32.90	129.59
23	67.87	17.63	54.25	115.37	64.09	72.62	13.07	14.62	58.64	14.98	36.90	84.93E
24	58.01	17.09	54.71	79.93	50.17	45.27	11.14	8.25	26.18	14.32	26.50	60.17E
25	33.88	17.30	61.48	67.15	45.25	46.66	10.49	6.19	20.93	14.30	48.71	58.38
26	31.36	16.18	81.35	58.33	42.40	55.71	11.11	5.91	17.92	14.03	29.76	81.29E
27	28.41	14.86	75.99	54.86	38.16	39.33	17.28	5.79	16.29	13.46	31.43	158.92
28	27.21	14.31	65.58	86.80	49.52	47.79	33.23	41.51	16.04	13.12	50.12	111.43
29	25.47		66.52	77.41	69.70	77.63	22.49	13.01	14.07	12.93	46.92	76.24
30	22.23		79.02	60.55	46.20	557.64E	15.28	9.74	12.70	19.01	33.61	63.56
31	23.57		99.63		66.13		11.85	17.38		21.83		55.32E
MEAN	28.638	23.551	59.604	82.062	54.694	68.885	42.079	14.649	21.339	21.546	32.402	61.647
INCHES	1.965	1.460	4.090	5.450	3.753	4.575	2.888	1.005	1.417	1.479	2.152	4.230
STA AV	0.919	0.814	1.733	5.638	4.069	1.630	0.921	0.690	0.566	0.997	1.432	1.426

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.002213695. STA AV based on 14 yr (1960-1973) record period.

1973	SELECTED RUNOFF EVENT					NORTH DANVILLE, VERMONT WATERSHED W-4					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JULY 14 - 15, 1973											
RG 000010			RG 000010								
7-14	0.0	0.004	7-14	143	0.0	0.0	7-14	132	28.678	0.0	
				205	0.1636	0.06		333	30.341	0.0055	
				225	0.0	0.06		431	39.515	0.0086	
				240	0.5601	0.20		524	80.276	0.0135	
				326	0.1304	0.30		559	124.421	0.0190	
WATERSHED CONDITIONS:				341	0.6000	0.45		629	158.467	0.0255	
74% forest land; 12% pastured				402	0.3142	0.56		659	179.008	0.0333	
land; 12% cultivated; 2% idle				445	0.1256	0.65		724	194.119	0.0405	
land with dense grass and				502	0.3529	0.75		753	197.577	0.0492	
brush growth.				529	0.1111	0.80		832	195.844	0.0610	
				603	0.1412	0.88		928	189.000	0.0776	
				658	0.0	0.88		1039	166.190	0.0969	
				722	0.1750	0.95		1200	133.842	0.1156	
								1532	81.292	0.1507	
								2100	51.722	0.1842	
								2400	46.456	0.1978	
							7-15	600	42.211	0.2224	
								1200	41.527	0.2455	
								1759	36.295	0.2670	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For 30-day antecedent rainfall and runoff see tables of daily amounts.



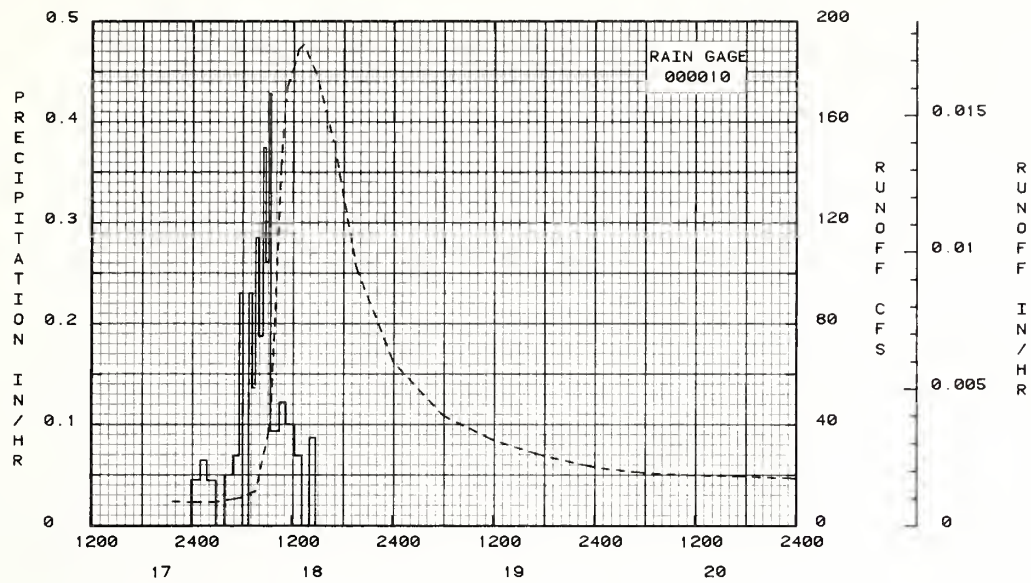
EVENT OF JULY 14 - 15, 1973
NORTH DANVILLE, VERMONT WATERSHED W-4

1973 SELECTED RUNOFF EVENT

NORTH DANVILLE, VERMONT WATERSHED W-4

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF SEPTEMBER 17 - 21, 1973								
9-17	RG 000010 0.0	0.021	9-17	2400	0.0	9-17	2146	9.794
			9-18	106	0.0455		2400	9.233
				152	0.0652	9-18	115	9.233
				259	0.0448		231	9.233
				400	0.0		600	11.285
				459	0.0509		745	13.940
				542	0.0698		925	40.179
				608	0.2308		959	82.315
				652	0.0		1040	145.120
				718	0.2308		1121	174.134
				740	0.1363		1200	180.651
				801	0.2857		1242	189.000
				833	0.1875		1318	190.697
				849	0.3750		1443	179.008
				912	0.2609		1658	150.965
				926	0.4285		1937	102.065
				1030	0.0938		2400	65.059
				1119	0.1225	9-19	558	43.599
				1219	0.1000		1200	33.836
				1311	0.0692		1759	27.601
				1408	0.0		2400	23.057
				1449	0.0878	9-20	600	20.742
							1200	19.857
							1758	19.423
							2400	18.572
						9-21	559	17.339
							1200	16.545
							1758	15.773
							2400	14.296

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000092. For 30-day antecedent rainfall and runoff, see tables of daily amounts.



EVENT OF SEPTEMBER 17 - 21, 1973
NORTH DANVILLE, VERMONT WATERSHED W-4

NORTH DANVILLE, VERMONT WATERSHED W-5

LOCATION: Caledonia County, Vermont; 2 mi. NW of St. Johnsbury; Sleepers River, Connecticut River Basin.
Lat. 44 deg. 26 min. 04 sec. N.; Long. 72 deg. 02 min. 22 sec. W.

AREA: 27469.00 acres 42.92 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)								NORTH DANVILLE, VERMONT WATERSHED W-5									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	3.08	1.49	2.39	3.55	5.51	10.20	2.72	4.33	4.21	2.81	4.03	7.94	52.26			
	Q	2.294	1.568	4.683	5.646	3.749	4.802	2.861	0.844	1.168	1.173	2.081	4.327	35.196			
STA AV	P	2.00	2.23	2.46	2.94	3.34	3.83	3.29	4.12	2.51	3.26	3.69	3.60	37.29			
	Q	1.317	1.159	2.410	5.966	3.655	1.425	0.832	0.640	0.508	0.951	1.467	1.562	21.892			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6-30	0.100	6-30	0.100	6-30	0.200	6-30	0.598	6-30	1.070	6-30	1.574	6-29	2.002	6-29	2.964
MAXIMUMS FOR PERIOD OF RECORD																	
		6-30	0.100	6-30	0.100	6-30	0.200	6-30	0.598	6-30	1.070	6-30	1.574	6-29	2.002	4-30	4.641
		1973		1973		1973		1973		1973		1973		1973		1972	

NOTES: Watershed conditions: Forest predominantly hardwoods, 67%; cultivated land consisting of mostly clover, orchard grass, and timothy hay with very little in row crops, 17%; pasture of mostly bluegrass, 13%; idle land in tall grasses and woody plants, 2%; and homesites and roads, 1%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1960-61, OSDA Misc. Pub. 994, p. 67.5-5. Precipitation records began January 1, 1959. Runoff records began January 1, 1960. For long-time precipitation records, see National Weather Service records at St. Johnsbury, Vt.

1973 DAILY PRECIPITATION (inches)													NORTH DANVILLE, VERMONT WATERSHED W-5												
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
	1	0.24	0.0	0.0	0.22	0.03	0.19	0.33	0.12	0.0	0.0	0.99	0.04												
	2	0.0	0.66	0.06	0.33	0.09	0.0	0.11	0.33	0.0	0.10	0.16	0.01												
	3	0.04	0.05	0.0	0.12	0.53	0.0	0.0	0.71	0.0	0.95	0.06	0.0												
	4	0.13	0.0	0.13	0.60	0.0	0.25	0.0	0.10	0.0	0.0	0.0	0.0												
	5	0.14	0.04	0.01	0.55	0.05	0.04	0.0	0.0	0.0	0.70	0.0	0.35												
	6	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.20	0.0	0.03	0.30												
	7	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0												
	8	0.0	0.11	0.31	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.03	0.0												
	9	0.04	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	0.0	0.0	0.38												
	10	0.10	0.0	0.05	0.50	0.03	0.0	0.38	0.25	0.0	0.0	0.0	0.02												
	11	0.01	0.0	0.20	0.0	0.31	0.26	0.08	0.36	0.04	0.0	0.0	0.0												
	12	0.0	0.0	0.14	0.0	0.22	0.58	0.0	0.0	0.0	0.0	0.0	0.0												
	13	0.0	0.05	0.03	0.0	0.08	0.64	0.0	0.0	0.0	0.02	0.0	0.09												
	14	0.04	0.0	0.0	0.0	0.0	0.13	0.95	0.0	0.32	0.15	0.0	1.20												
	15	0.02	0.44	0.17	0.0	0.26	0.0	0.0	0.02	0.18	0.09	0.65	0.0												
	16	0.0	0.04	0.0	0.0	0.09	1.89	0.0	0.0	0.0	0.30	0.70	0.06												
	17	0.0	0.0	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.40												
	18	0.0	0.0	0.13	0.0	0.15	0.0	0.0	0.0	1.42	0.0	0.0	0.07												
	19	0.10	0.0	0.07	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	20	0.70	0.0	0.03	0.0	0.02	0.0	0.15	0.0	0.04	0.10	0.0	0.40												
	21	0.0	0.08	0.0	0.0	1.56	0.55	0.0	0.0	0.0	0.0	0.0	2.14												
	22	0.41	0.02	0.0	0.46	0.19	0.80	0.0	0.90	0.96	0.0	0.25	0.0												
	23	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10												
	24	0.05	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.25	0.0												
	25	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.10	0.06												
	26	0.0	0.0	0.06	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.39												
	27	0.0	0.0	0.0	0.25	0.0	0.32	0.44	0.0	0.05	0.0	0.35	0.65												
	28	0.12	0.0	0.0	0.40	0.56	0.17	0.03	1.09	0.0	0.0	0.25	0.15												
	29	0.44	0.0	0.0	0.10	0.14	0.97	0.10	0.0	0.0	0.0	0.05	0.0												
	30	0.10	0.0	0.0	0.02	0.0	3.12	0.0	0.45	0.0	0.40	0.16	0.0												
	31	0.0	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.13	0.0												
TOTAL		3.08	1.49	2.39	3.55	5.51	10.20	2.72	4.33	4.21	2.81	4.03	7.94												
STA AV		2.00	2.23	2.46	2.94	3.34	3.83	3.29	4.12	2.51	3.26	3.69	3.60												

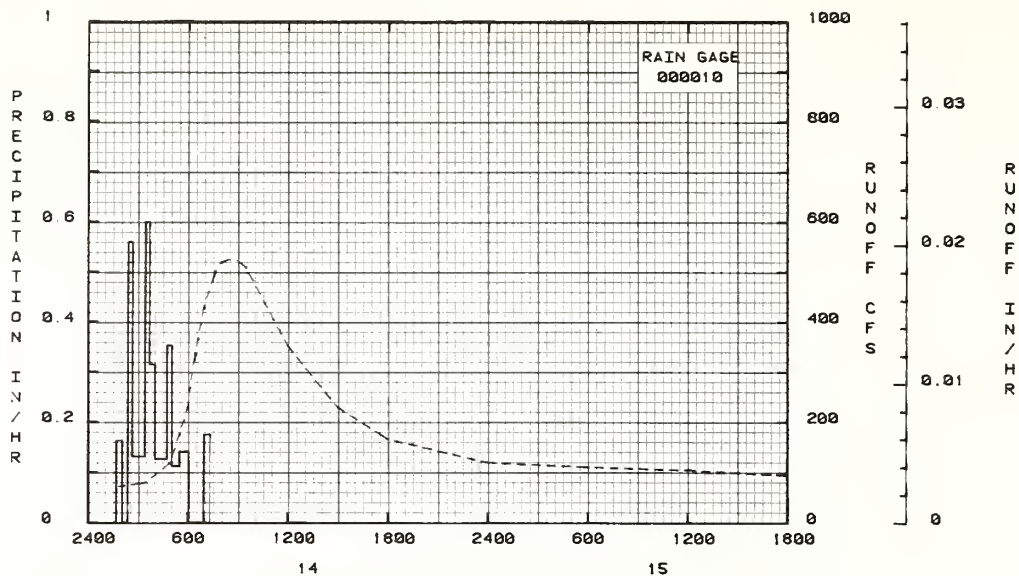
NOTES: For temperature data see table of maximum and minimum values included with information for Watershed 67.001. Daily precipitation values from rain gage R-10. All precipitation is rain except for the months of December, January, and February, during which all precipitation is snow or rain on snow. STA AV based on 15 yr (1959-1973) record period.

1973 MEAN DAILY DISCHARGE (cfs) NORTH DANVILLE, VERMONT WATERSHED W-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	171.4	55.5E	37.4	326.8	123.8	144.6	522.8	26.6	20.0	23.0	109.8	70.8
2	138.2	60.1	37.4	388.1	121.1	134.8	297.1	50.5	16.1	22.4	161.9	53.5
3	75.5	205.6	37.8	260.9	161.0	91.3	222.8	41.4	14.0	101.2	137.3	53.9
4	65.5	158.0	40.7	239.7	180.3	94.9	186.7	107.3	12.3	105.8	67.3	62.6
5	66.2	99.6	57.5	272.1	118.4	111.4	164.4	44.9	11.2	131.2	50.0	103.9
6	53.5E	77.2	61.1	222.5	105.3	87.2	134.6	30.5	130.3	102.4	43.2	198.5
7	51.5E	80.0	55.0	198.0	91.9	79.4	113.3	28.3	64.8	54.3	40.9	94.1
8	50.7E	75.1	130.7	171.8	82.1	65.7	98.7	25.0	29.3	43.9	41.0	63.4
9	48.1E	68.8	178.3	147.6	131.3	59.0	83.5	23.0	22.3	39.7	40.7	71.7
10	47.2	59.5	112.4	141.4	130.1	50.7	79.7	23.6	19.5	37.0	37.0	144.5
11	45.0	59.0	102.9	134.4	143.9	46.7	147.1	92.0	17.4	35.3	35.7	89.9
12	42.9	52.5	295.0	121.9	139.1	90.2	83.6	38.4	15.7	33.2	37.6	64.2
13	40.5	54.9	348.3	118.1	150.3	173.1	73.7	26.1	13.9	32.2	41.4	40.0
14	40.1	54.5	182.8	126.4	102.9	106.0	232.1	23.2	13.7	34.3	47.0	223.8
15	40.8	54.9	147.4	147.3	88.3	71.5	103.0	20.7	41.3	32.4	89.2	162.2
16	40.8	54.6	219.1	206.3	148.0	548.6	79.7	23.8	29.0	40.2	271.9	78.1
17	41.0	49.9	478.6	347.6	93.4	252.5	64.5	17.3E	20.9	44.4	100.2	61.3
18	45.8	48.6	528.5	308.7	89.7	119.5	56.1	15.0	191.9	36.2	70.6	65.5
19	59.7	47.4	213.4	319.9	116.0	95.1	47.5	13.1	88.7	32.1	54.3	53.9
20	236.2	46.9	170.2	252.7	100.9	81.5	49.0	11.9	42.7	33.5	52.9	62.5
21	159.5E	46.9	151.0	229.0	432.5	83.4	57.2	11.0	34.3	35.1	43.3	1052.2
22	104.5E	46.9	140.9	354.6	323.9	292.0	42.2	29.8	90.1	30.3	81.8	331.7
23	248.8E	46.9	136.7	311.1	160.5	155.4	36.2	35.3	149.9	28.4	75.2	174.5
24	200.8E	45.9	140.0	189.9	121.5	102.7	32.6	17.9	58.6	27.4	62.9	122.8
25	101.5E	43.3	158.3	154.7	106.4	103.2	29.9	13.2	45.2	26.6	121.4	111.4
26	89.5E	41.5E	223.8	132.9	98.7	115.7	32.7	12.3	37.4	26.4	71.1	167.4
27	78.1E	38.7E	202.7	126.3	88.7	84.1	39.6	12.5	33.5	25.6	75.5	443.9
28	73.7	37.6	167.7	213.8	121.7	106.5	70.3	78.3	31.9	24.7	136.2	304.5
29	69.3		170.0	202.3	176.6	204.1	53.7	27.3	27.7	24.7	121.4	190.4
30	59.2		207.0	149.0	114.7	1791.6	38.1	18.9	25.1	40.9	82.8	151.5
31	61.5E		272.1		163.2		29.7	34.3		49.5		125.3
MEAN	85.39	64.65	174.34	217.19	139.55	184.74	106.52	31.41	44.95	43.68	80.05	161.10
INCHES	2.294	1.568	4.683	5.646	3.749	4.802	2.861	0.844	1.168	1.173	2.081	4.327
STA AV	1.317	1.159	2.410	5.966	3.655	1.425	0.832	0.640	0.508	0.951	1.467	1.562

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0008665. STA AV based on 14 yr (1960-1973) record period.

1973 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-5							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JULY 14 - 15, 1973										
RG 000010			RG 000010							
7-14	0.0	0.005	7-14	143	0.0	0.0	7-14	146	71.355	0.0
				205	0.1636	0.06		329	79.754	0.0047
				225	0.0	0.06		458	119.149	0.0100
				240	0.5601	0.20		559	224.912	0.0163
				326	0.1304	0.30		623	322.737	0.0203
WATERSHED CONDITIONS:				341	0.6000	0.45		659	432.821	0.0285
67% forest; 17% hay; 13%				402	0.3142	0.56		740	503.102	0.0400
pastured land; 2% idle land				445	0.1256	0.65		759	518.995	0.0458
with dense brush and grass				502	0.3529	0.75		827	524.357	0.0547
growth; 1% homesites and				529	0.1111	0.80		851	524.357	0.0622
roads.				603	0.1412	0.88		928	508.365	0.0737
				658	0.0	0.88		1200	351.615	0.1131
				722	0.1750	0.95		1500	228.162	0.1445
								1759	165.675	0.1657
								2400	119.149	0.1966
							7-15	601	110.506	0.2216
								1200	104.279	0.2448
								1758	94.379	0.2661

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000036104. For 30-day antecedent rainfall and runoff, see tables of daily values.



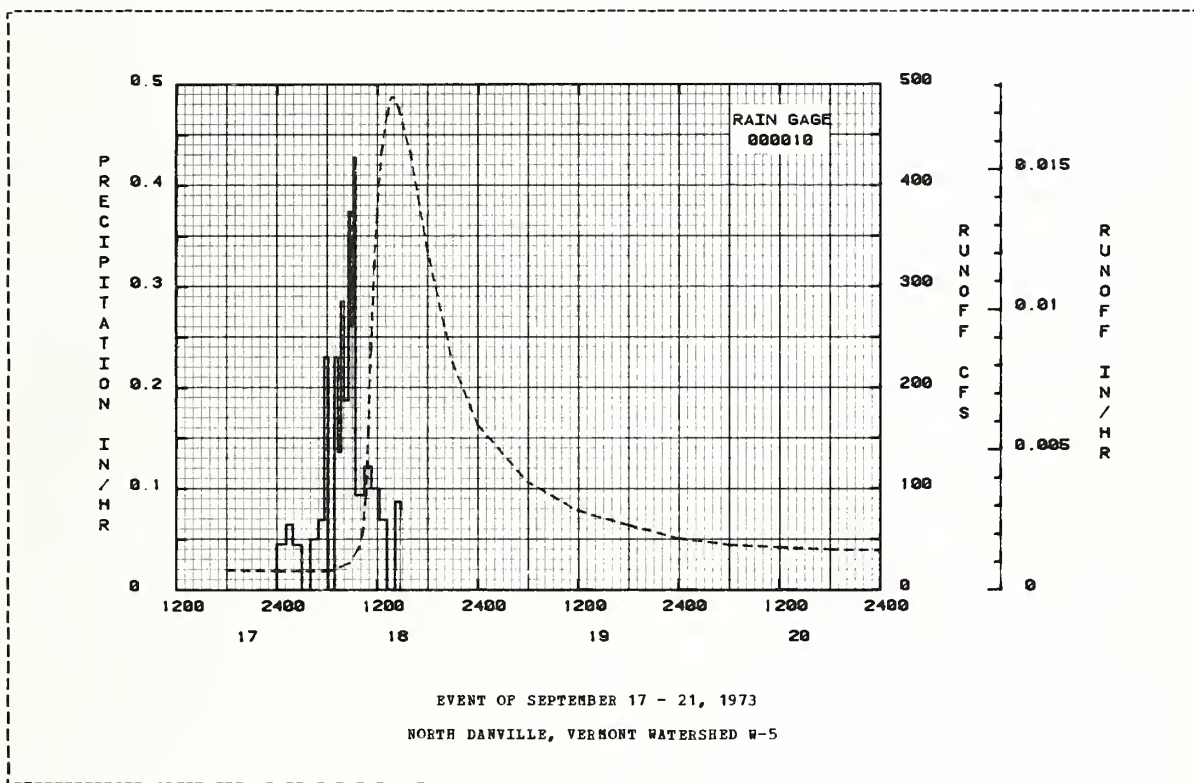
EVENT OF JULY 14 - 15, 1973
NORTH DANVILLE, VERMONT WATERSHED W-5

1973 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-5							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 17 - 21, 1973										
9-17	RG 000010 0.0	0.014	9-17	2400	0.0	0.0	9-17	1800	19.862	0.0
			9-18	106	0.0455	0.05		2400	18.389	0.0041
				152	0.0652	0.10	9-18	530	18.389	0.0078
				259	0.0448	0.15		646	19.862	0.0087
				400	0.0	0.15		846	27.354	0.0104
WATERSHED CONDITIONS: 67% Forest; 17% hay; 13% pastured land; 2% idle land with dense brush and grass growth; 1% homesites and roads.				459	0.0509	0.20		954	43.176	0.0118
				542	0.0698	0.25		1016	54.811	0.0124
				608	0.2308	0.35		1042	98.268	0.0136
				652	0.0	0.35		1057	155.111	0.0148
				718	0.2308	0.45		1116	244.834	0.0171
				740	0.1363	0.50		1137	318.731	0.0206
				801	0.2857	0.60		1200	377.562	0.0255
				833	0.1875	0.70		1229	432.821	0.0325
				849	0.3750	0.80		1318	477.271	0.0459
				912	0.2609	0.90		1339	487.506	0.0520
				926	0.4285	1.00		1359	487.506	0.0579
				1030	0.0938	1.10		1430	477.271	0.0669
				1119	0.1225	1.20		1556	432.821	0.0904
				1219	0.1000	1.30		1800	334.931	0.1191
				1311	0.0692	1.36		2059	224.912	0.1492
				1408	0.0	1.36		2400	162.994	0.1704
				1449	0.0878	1.42	9-19	559	106.331	0.1994
								630	104.279	0.2014
								1200	78.030	0.2195
								1800	63.510	0.2348
							9-20	2400	50.747	0.2472
								600	44.387	0.2575
								1200	41.985	0.2669
								1800	39.663	0.2757
								2400	38.531	0.2842

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000036104. For 30-day antecedent rainfall and runoff, see tables of daily values.

1973 SELECTED RUNOFF EVENT			NORTH DANVILLE, VERMONT WATERSHED W-5							
ANTECEDENT CONDITIONS			RAINFALL			Acc.	RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity		Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF SEPTEMBER 17 - 21, 1973 (CONTINUED)										
							9-21	559	36.327	0.2923
								1200	34.200	0.2999
								1800	32.150	0.3071
								2400	30.176	0.3139

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000036104. For 30-day antecedent rainfall and runoff, see tables of daily values.



REYNOLDS, IDAHO WATERSHED W-1 (036068)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; north flowing tributary to the Snake River. Lat. 43 deg. 15 min. 49 sec. N.; Long. 116 deg. 45 min. 10 sec. W.

AREA: 57700.00 acres 90.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							REYNOLDS, IDAHO WATERSHED W-1 (036068)										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	1.32	0.69	1.05	3.29	0.53	0.63	0.50	0.26	1.53	0.82	3.66	3.06	17.33			
	Q	0.236	0.125	0.152	0.513	0.391	0.068	0.027	0.014	0.009	0.014	0.051	0.173	1.771			
STA AV	P	3.39	1.31	1.70	1.66	0.87	1.78	0.31	0.88	1.08	1.34	2.46	2.53	19.31			
	Q	0.507	0.300	0.455	0.566	0.592	0.299	0.041	0.023	0.014	0.025	0.052	0.220	3.094			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		4-17	0.003	4-17	0.003	4-17	0.006	4-17	0.016	4-17	0.029	4-16	0.052	4-16	0.083	4-13	0.262
MAXIMUMS FOR PERIOD OF RECORD																	
		12-23	0.065	12-23	0.064	12-23	0.125	12-23	0.270	12-23	0.327	12-23	0.453	12-23	0.721	12-28	1.313
		1964		1964		1964		1964		1964		1964		1964		1965	

NOTES: Watershed conditions: Predominantly sagebrush rangeland, 95%; small stands of forest, 2%; permanent fields of flood irrigated alfalfa, 3%. For revised map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330, p. 68.1-6. Records began 1963. Precipitation data are Thiessen weighted average 'Computed Actual' amounts from 45 rain gages. Station average precipitation amounts are based on 1968-73 data. Station average runoff amounts are based on the 1963-73 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1973 DAILY AIR TEMPERATURE (degrees F)														REYNOLDS, IDAHO WATERSHED W-1 (036068)													
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec				
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min			
1	35	9	37	15	52	32	44	24	59	34	68	37	70	36	92	56	63	43	59	40	43	24	50	33			
2	39	4	35	21	45	24	48	30	68	30	86	37	86	40	93	68	70	43	54	36	35	15	39	27			
3	28	6	40	20	46	19	54	26	66	48	65	37	89	60	83	60	78	39	59	27	34	15	43	27			
4	27	3	46	27	43	25	62	31	56	32	71	37	91	54	89	52	83	44	64	25	43	18	39	21			
5	31	3	47	29	45	24	66	37	64	41	84	39	83	54	90	63	89	47	67	32	51	39	38	25			
6	25	9	43	26	47	22	54	32	64	40	89	49	78	53	84	54	88	54	69	40	59	40	40	30			
7	21	3	39	25	48	35	47	26	63	37	82	55	83	46	78	52	62	50	51	31	44	36	53	32			
8	19	11	39	22	49	24	58	20	67	44	87	47	88	50	87	49	70	50	51	28	68	41	45	25			
9	23	15	40	22	48	24	59	31	67	37	78	49	92	54	89	53	76	46	51	32	67	48	42	20			
10	29	20	44	27	56	30	61	40	58	34	69	42	98	59	85	57	82	45	55	29	61	45	39	21			
11	39	23	39	26	41	26	66	31	66	26	78	40	85	64	85	58	86	53	57	32	59	50	47	30			
12	48	38	39	27	46	24	62	41	77	35	86	50	85	54	92	50	87	53	65	48	55	38	39	34			
13	54	39	41	24	40	30	55	33	80	40	75	60	80	59	93	66	84	46	78	44	49	36	44	34			
14	53	32	41	22	44	29	51	32	80	43	61	40	83	60	88	59	72	48	79	44	44	35	41	28			
15	51	29	36	24	51	22	53	28	85	41	64	37	90	53	97	53	66	40	77	41	52	39	47	28			
16	50	37	43	20	52	25	53	34	83	54	67	42	96	56	92	58	68	36	72	39	51	38	53	35			
17	42	30	50	23	47	22	47	33	84	52	55	32	95	60	80	48	77	40	76	37	43	35	49	36			
18	41	30	41	24	47	17	44	31	81	54	61	32	90	61	81	49	76	46	75	41	43	30	45	25			
19	33	24	43	17	48	30	45	29	80	58	76	34	85	60	89	46	71	53	75	40	33	19	40	24			
20	32	20	42	19	48	36	48	33	67	38	86	43	80	50	89	64	68	48	61	37	36	20	41	26			
21	37	23	41	19	46	36	56	34	64	31	90	54	72	52	87	62	65	42	71	37	36	31	45	34			
22	38	12	44	19	46	33	60	36	77	32	92	54	75	54	84	57	68	46	65	37	40	24	43	34			
23	37	17	50	21	51	32	58	42	77	43	74	53	79	45	80	51	61	44	52	40	37	26	39	31			
24	43	18	45	26	55	24	59	35	65	41	80	49	85	49	69	50	55	42	57	39	35	25	44	25			
25	40	28	52	31	57	26	61	33	56	32	90	53	87	51	68	50	58	37	49	29	39	26	40	20			
26	30	18	51	28	48	32	68	34	59	30	84	56	89	58	74	41	64	34	52	23	38	29	33	16			
27	31	9	51	33	42	30	69	40	67	33	90	43	92	57	78	53	70	34	59	24	50	34	44	28			
28	38	19	55	32	44	29	53	32	69	38	93	43	92	62	77	42	76	40	67	29	53	39	42	33			
29	38	23			46	29	53	32	77	40	83	57	92	59	84	45	77	41	50	37	55	41	45	30			
30	40	28			47	26	56	34	80	41	75	49	94	56	87	53	74	46	57	39	50	37	31	22			
31	36	25			48	30			69	46			94	55	63	47			62	43			32	16			
AV.	36	20	43	24	48	27	56	32	70	40	78	45	86	54	84	54	73	44	62	35	47	32	42	27			
MEAN	28.0		33.7		37.5		44.1		54.9		61.5		70.4		69.0		58.6		49.0		39.6		38.9				
STA AV	37	21	45	26	48	26	55	29	67	39	74	47	86	52	85	51	73	43	61	33	48	27	38	22			

NOTES: Temperature data taken from hygrothermograph record at station 076X59. STA AV is average for 11 yr (1963-73) record period.

1973 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00T	0.00T	0.02	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.07	0.07
2	0.04	0.0	0.00T	0.00T	0.0	0.0	0.0	0.01	0.00T	0.0	0.00T	0.00T
3	0.00T	0.00T	0.0	0.0	0.02	0.0	0.0	0.13	0.0	0.0	0.01	0.05
4	0.00T	0.10	0.0	0.0	0.05	0.0	0.0	0.03	0.00T	0.0	0.01	0.00T
5	0.00T	0.09	0.0	0.00T	0.01	0.0	0.0	0.00T	0.0	0.0	0.17	0.0
6	0.02	0.02	0.00T	0.00T	0.00T	0.0	0.00T	0.0	0.00T	0.03	0.15	0.01
7	0.00T	0.05	0.00T	0.0	0.00T	0.0	0.0	0.0	0.13	0.24	0.57	0.08
8	0.01	0.00T	0.00T	0.0	0.09	0.0	0.0	0.0	0.0	0.00T	0.17	0.0
9	0.03	0.03	0.00T	0.0	0.0	0.0	0.0	0.00T	0.0	0.00T	0.04	0.0
10	0.02	0.15	0.30	0.0	0.0	0.0	0.00T	0.00T	0.0	0.0	0.02	0.0
11	0.19	0.00T	0.01	0.0	0.0	0.0	0.0	0.00T	0.0	0.00T	0.11	0.13
12	0.43	0.09	0.01	0.09	0.00T	0.0	0.00T	0.00T	0.0	0.01	0.21	0.02
13	0.00T	0.07	0.10	1.72	0.0	0.00T	0.02	0.00T	0.00T	0.0	0.17	0.07
14	0.00T	0.00T	0.00T	0.55	0.0	0.33	0.06	0.00T	0.00T	0.0	0.10	0.02
15	0.00T	0.01	0.0	0.00T	0.0	0.00T	0.0	0.00T	0.0	0.0	0.10	0.00T
16	0.24	0.00T	0.00T	0.32	0.0	0.05	0.0	0.00T	0.0	0.0	0.13	0.07
17	0.02	0.04	0.04	0.22	0.0	0.24	0.0	0.0	0.0	0.0	0.21	0.44
18	0.11	0.00T	0.00T	0.08	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.19	0.00T
19	0.00T	0.00T	0.00T	0.22	0.06	0.0	0.04	0.00T	0.02	0.00T	0.00T	0.00T
20	0.00T	0.00T	0.31	0.00T	0.00T	0.0	0.31	0.0	0.33	0.08	0.16	0.26
21	0.00T	0.00T	0.11	0.00T	0.0	0.0	0.01	0.0	0.0	0.00T	0.15	0.09
22	0.00T	0.0	0.04	0.06	0.0	0.00T	0.03	0.00T	0.00T	0.00T	0.03	0.17
23	0.0	0.0	0.0	0.01	0.00T	0.0	0.05	0.0	0.38	0.22	0.19	0.12
24	0.02	0.02	0.0	0.00T	0.29	0.0	0.00T	0.0	0.61	0.02	0.14	0.05
25	0.11	0.00T	0.0	0.00T	0.00T	0.0	0.00T	0.05	0.05	0.00T	0.36	0.15
26	0.01	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.04
27	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.54
28	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.0	0.0	0.08	0.00T	0.12
29	0.00T	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.01	0.09	0.54
30	0.02	0.09	0.0	0.0	0.0	0.00T	0.0	0.00T	0.00T	0.00T	0.01	0.00T
31	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.11	0.0	0.0
TOTAL	1.32	0.69	1.05	3.29	0.53	0.63	0.50	0.26	1.53	0.82	3.66	3.06
STA AV	3.39	1.31	1.70	1.66	0.87	1.78	0.31	0.88	1.08	1.34	2.46	2.53

NOTES: Values are Thiessen weighted average 'Actual' amounts from 45 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDRS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 6 yr (1968-73) record period.

1973 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00T	0.00T	0.02	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.06	0.05
2	0.04	0.0	0.00T	0.00T	0.0	0.0	0.0	0.01	0.00T	0.0	0.00T	0.00T
3	0.00T	0.00T	0.0	0.0	0.01	0.0	0.0	0.12	0.0	0.0	0.01	0.05
4	0.00T	0.05	0.0	0.0	0.04	0.0	0.0	0.03	0.00T	0.0	0.00T	0.00T
5	0.00T	0.04	0.0	0.00T	0.01	0.0	0.0	0.00T	0.0	0.0	0.13	0.0
6	0.01	0.01	0.00T	0.00T	0.00T	0.0	0.00T	0.0	0.00T	0.03	0.13	0.00T
7	0.00T	0.04	0.00T	0.0	0.00T	0.0	0.0	0.0	0.13	0.22	0.51	0.08
8	0.01	0.00T	0.00T	0.0	0.09	0.0	0.0	0.0	0.0	0.00T	0.15	0.0
9	0.02	0.02	0.00T	0.0	0.0	0.0	0.0	0.00T	0.0	0.00T	0.03	0.0
10	0.01	0.09	0.19	0.0	0.0	0.0	0.00T	0.00T	0.0	0.0	0.02	0.0
11	0.12	0.00T	0.01	0.0	0.0	0.0	0.0	0.00T	0.0	0.00T	0.09	0.10
12	0.32	0.06	0.01	0.08	0.00T	0.0	0.00T	0.00T	0.0	0.01	0.16	0.01
13	0.00T	0.05	0.05	1.49	0.0	0.00T	0.02	0.00T	0.00T	0.0	0.12	0.05
14	0.00T	0.00T	0.00T	0.47	0.0	0.29	0.06	0.00T	0.00T	0.0	0.05	0.01
15	0.00T	0.00T	0.0	0.00T	0.0	0.00T	0.0	0.00T	0.0	0.0	0.06	0.00T
16	0.17	0.00T	0.00T	0.21	0.0	0.04	0.0	0.00T	0.0	0.0	0.07	0.05
17	0.01	0.04	0.03	0.15	0.0	0.21	0.0	0.0	0.0	0.0	0.11	0.33
18	0.07	0.00T	0.00T	0.05	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.10	0.00T
19	0.00T	0.00T	0.00T	0.14	0.06	0.0	0.04	0.00T	0.02	0.00T	0.00T	0.00T
20	0.00T	0.00T	0.24	0.00T	0.00T	0.0	0.30	0.0	0.31	0.07	0.07	0.17
21	0.00T	0.00T	0.08	0.00T	0.0	0.0	0.01	0.0	0.0	0.00T	0.07	0.06
22	0.00T	0.0	0.03	0.05	0.0	0.00T	0.02	0.00T	0.00T	0.00T	0.01	0.11
23	0.0	0.0	0.0	0.01	0.00T	0.0	0.04	0.0	0.35	0.19	0.08	0.08
24	0.01	0.02	0.0	0.00T	0.26	0.0	0.00T	0.0	0.56	0.02	0.05	0.03
25	0.07	0.00T	0.0	0.00T	0.00T	0.0	0.00T	0.05	0.05	0.00T	0.14	0.10
26	0.01	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.03
27	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.36
28	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.0	0.0	0.07	0.00T	0.08
29	0.00T	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.00T	0.08	0.36
30	0.01	0.07	0.0	0.0	0.0	0.00T	0.0	0.00T	0.00T	0.00T	0.00T	0.00T
31	0.01	0.01	0.01	0.0	0.0	0.0	0.0	0.03	0.0	0.09	0.0	0.0
TOTAL	0.93	0.43	0.73	2.64	0.50	0.55	0.48	0.25	1.41	0.70	2.33	2.14
STA AV												

NOTES: Values are Thiessen weighted average amounts from 45 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1973 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00T	0.00T	0.02	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.07	0.06
2	0.04	0.0	0.00T	0.00T	0.0	0.0	0.0	0.01	0.00T	0.0	0.00T	0.00T
3	0.00T	0.00T	0.0	0.0	0.02	0.0	0.0	0.12	0.0	0.0	0.01	0.05
4	0.00T	0.07	0.0	0.0	0.05	0.0	0.0	0.03	0.00T	0.0	0.01	0.00T
5	0.00T	0.06	0.0	0.00T	0.01	0.0	0.0	0.00T	0.0	0.0	0.15	0.0
6	0.02	0.02	0.00T	0.00T	0.00T	0.0	0.00T	0.0	0.00T	0.03	0.15	0.00T
7	0.00T	0.04	0.00T	0.0	0.00T	0.0	0.0	0.0	0.13	0.23	0.55	0.08
8	0.01	0.00T	0.00T	0.0	0.09	0.0	0.0	0.0	0.0	0.00T	0.16	0.0
9	0.03	0.03	0.00T	0.0	0.0	0.0	0.0	0.00T	0.0	0.00T	0.03	0.0
10	0.02	0.12	0.24	0.0	0.0	0.0	0.00T	0.00T	0.0	0.0	0.02	0.0
11	0.16	0.00T	0.01	0.0	0.0	0.0	0.0	0.00T	0.0	0.00T	0.10	0.11
12	0.37	0.07	0.01	0.09	0.00T	0.0	0.00T	0.00T	0.0	0.01	0.19	0.02
13	0.00T	0.06	0.07	1.61	0.0	0.00T	0.02	0.00T	0.00T	0.0	0.15	0.06
14	0.00T	0.00T	0.00T	0.51	0.0	0.31	0.06	0.00T	0.00T	0.0	0.08	0.02
15	0.00T	0.01	0.0	0.00T	0.0	0.00T	0.0	0.00T	0.0	0.0	0.08	0.00T
16	0.21	0.00T	0.00T	0.26	0.0	0.05	0.0	0.00T	0.0	0.0	0.10	0.06
17	0.02	0.04	0.04	0.19	0.0	0.23	0.0	0.0	0.0	0.0	0.16	0.39
18	0.09	0.00T	0.00T	0.07	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.14	0.00T
19	0.00T	0.00T	0.00T	0.18	0.06	0.0	0.04	0.00T	0.02	0.00T	0.00T	0.00T
20	0.00T	0.00T	0.28	0.00T	0.00T	0.0	0.30	0.0	0.32	0.08	0.11	0.21
21	0.00T	0.00T	0.09	0.00T	0.0	0.0	0.01	0.0	0.0	0.00T	0.11	0.07
22	0.00T	0.0	0.03	0.05	0.0	0.00T	0.02	0.00T	0.00T	0.00T	0.02	0.14
23	0.0	0.0	0.0	0.01	0.00T	0.0	0.04	0.0	0.37	0.20	0.13	0.10
24	0.02	0.02	0.0	0.00T	0.28	0.0	0.00T	0.0	0.59	0.02	0.09	0.05
25	0.08	0.00T	0.0	0.00T	0.00T	0.0	0.00T	0.05	0.05	0.00T	0.23	0.12
26	0.01	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.04
27	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.45
28	0.00T	0.00T	0.00T	0.0	0.0	0.00T	0.0	0.0	0.0	0.08	0.00T	0.10
29	0.00T	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.01	0.08	0.45
30	0.01	0.0	0.08	0.0	0.0	0.00T	0.0	0.00T	0.00T	0.00T	0.00T	0.00T
31	0.02	0.0	0.01	0.0	0.0	0.0	0.0	0.03	0.10	0.0	0.0	0.0
TOTAL	1.13	0.56	0.89	2.97	0.52	0.59	0.49	0.25	1.48	0.77	2.99	2.60
STA AV												

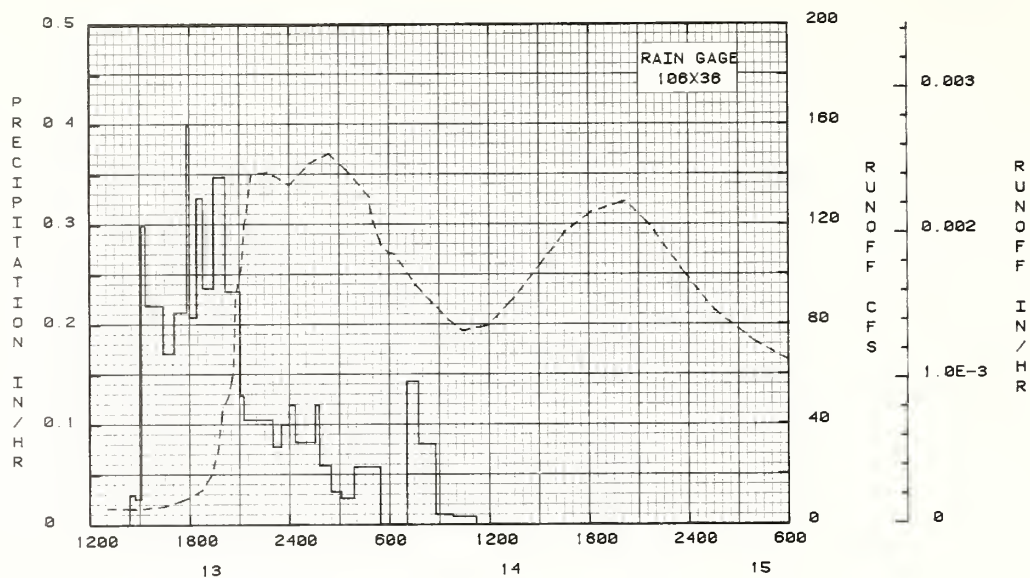
NOTES: Values are Thiessen weighted average amounts from 45 shielded recording gages. STA AV do not apply to shielded rain gage records.

1973 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO WATERSHED W-1 (036068)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	8.72	9.34	17.50	15.21	38.83	10.68	3.04	1.73	0.78	0.93	1.28	10.47
2	13.73	10.25	12.35	13.63	37.85	9.35	2.83	1.53	0.73	0.97	1.29	8.32
3	8.00	10.49	7.38	13.26	41.15	7.65	2.54	1.54	0.74	1.04	1.27	7.71
4	9.29	11.14	7.43	13.98	42.57	6.75	2.44	1.55	0.70	0.89	1.38	6.68
5	12.74	11.28	6.83	17.56	41.66	6.56	2.30	1.47	0.61	0.87	1.63	6.53
6	18.87	10.87	6.43	18.24	44.71	5.70	2.20	1.46	0.57	0.86	1.65	6.40
7	17.65	10.80	6.76	11.24	42.38	5.53	2.12	1.56	0.66	1.00	2.25	7.30
8	13.12	9.50	6.46	8.85	48.02	5.24	2.06	1.62	0.67	1.09	3.58	9.83
9	10.57	9.94	6.80	12.86	49.76	4.47	1.93	1.63	0.63	1.06	2.35	6.97
10	10.96	11.75	7.93	8.41	42.46	4.65	1.86	1.41	0.62	1.07	2.09	7.26
11	8.12	12.07	8.51	5.77	41.55	4.84	1.74	1.33	0.57	1.05	2.11	8.25
12	23.14	12.13	7.25	5.90	42.88	4.45	1.77	1.27	0.52	1.04	2.93	7.96
13	42.73	13.15	8.02	26.71	43.40	4.46	1.96	1.16	0.53	0.98	3.37	7.89
14	33.54	10.60	6.51	111.92	41.91	6.10	1.81	0.93	0.55	0.98	3.46	7.22
15	30.59	10.60	6.92	66.95	39.34	5.78	1.68	0.98	0.61	1.01	3.55	6.52
16	38.61	9.72	7.13	64.64	31.50	4.98	1.65	0.90	0.64	0.99	4.08	7.56
17	42.32	10.55	7.99	126.08	26.56	5.83	1.98	0.92	0.62	1.01	4.94	27.65
18	31.61	10.58	6.66	72.58	23.38	5.53	2.25	0.89	0.60	1.00	5.86	24.03
19	21.71	9.05	8.17	68.73	27.43	5.34	2.24	0.87	0.64	1.04	5.69	14.65
20	15.91	9.31	10.77	61.83	26.78	5.09	2.05	0.80	0.77	1.09	4.52	14.15
21	21.66	9.05	19.89	57.78	23.44	4.98	1.87	0.76	0.67	1.10	5.07	19.75
22	13.80	9.19	19.37	51.46	20.04	5.25	1.79	0.80	0.69	1.01	5.31	20.31
23	15.94	9.93	16.38	58.87	18.35	5.16	1.98	0.96	0.77	1.09	4.93	17.97
24	15.42	10.30	17.87	53.03	15.82	4.72	2.01	0.85	1.23	1.11	5.09	14.73
25	17.80	10.69	21.83	47.49	21.36	4.95	2.22	1.00	1.04	1.16	4.80	15.48
26	14.15	11.72	22.73	43.48	16.81	4.75	2.70	0.94	0.89	1.19	5.50	10.87
27	7.61	13.05	19.94	48.39	14.17	4.70	2.50	0.81	0.96	1.20	5.40	18.93
28	13.33	15.36	18.04	53.79	12.30	4.33	2.33	0.77	0.96	1.27	6.35	27.26
29	12.82		15.73	45.82	11.92	3.41	2.14	0.72	0.93	1.35	8.83	28.91
30	13.92		16.25	39.26	11.02	3.18	1.95	0.68	0.91	1.28	12.35	22.74
31	13.36		16.51		10.30		1.84	0.77		1.22		18.59
MEAN	18.443	10.801	11.881	41.456	30.633	5.481	2.123	1.118	0.727	1.062	4.096	13.512
INCHES	0.236	0.125	0.152	0.513	0.391	0.068	0.027	0.014	0.009	0.014	0.051	0.173
STA AV	0.507	0.300	0.455	0.566	0.592	0.299	0.041	0.023	0.014	0.025	0.052	0.220

NOTES: To convert CFS to IN/DAY, multiply by 0.000413. STA AV based on 11 yr (1963-73) record period.

1973 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 13 - 15, 1973										
HG 106X36			RG 106X36							
4-13	0.0	0.002	4-13	1423	0.0	0.0	4-13	1306	6.694	0.0
				1443	0.0300	0.01		1446	6.411	0.0002
				1506	0.0261	0.02		1642	7.893	0.0004
				1520	0.3000	0.09		1758	10.985	0.0006
				1623	0.2190	0.32		1846	14.200	0.0008
WATERSHED CONDITIONS: The event is combined rain and snowmelt. The pre- cipitation fell in the form of rain and snow.				1705	0.1714	0.44		1918	20.137	0.0010
				1750	0.2133	0.60		1942	29.137	0.0011
				1759	0.4000	0.66		1958	45.779	0.0013
				1825	0.2077	0.75		2022	51.916	0.0016
				1847	0.3273	0.87		2038	60.541	0.0019
				1925	0.2368	1.02		2046	90.585	0.0021
				2008	0.3488	1.27		2108	103.657	0.0027
				2102	0.2333	1.48		2118	119.525	0.0030
				2116	0.1286	1.51		2144	140.468	0.0040
				2259	0.1049	1.69		2242	141.354	0.0063
			2330	0.0774	1.73		2400	136.096	0.0094	
			2400	0.1000	1.78	4-14	114	144.934	0.0124	
			20	0.1200	1.82		222	148.575	0.0153	
			133	0.0822	1.92		338	140.468	0.0184	
			148	0.1200	1.95		450	130.972	0.0212	
			229	0.0585	1.99		454	124.345	0.0213	
			306	0.0324	2.01		530	111.778	0.0226	
			352	0.0261	2.03		558	108.777	0.0234	
			526	0.0574	2.12		620	108.035	0.0241	
			703	0.0	2.12		738	95.263	0.0264	
			745	0.1429	2.22		934	81.698	0.0293	
			845	0.0800	2.30		1024	77.483	0.0305	
			948	0.0095	2.31		1158	79.873	0.0326	
			1111	0.0072	2.32		1330	90.585	0.0348	
							1502	103.657	0.0374	
							1636	117.164	0.0404	
							1812	125.160	0.0437	
							2012	129.293	0.0481	
							2140	119.525	0.0512	
							2400	98.008	0.0556	
							4-15	132	85.432	0.0580
								356	72.845	0.0612
								640	65.178	0.0645
								954	57.571	0.0679
								1138	56.122	0.0696
								1426	49.226	0.0721

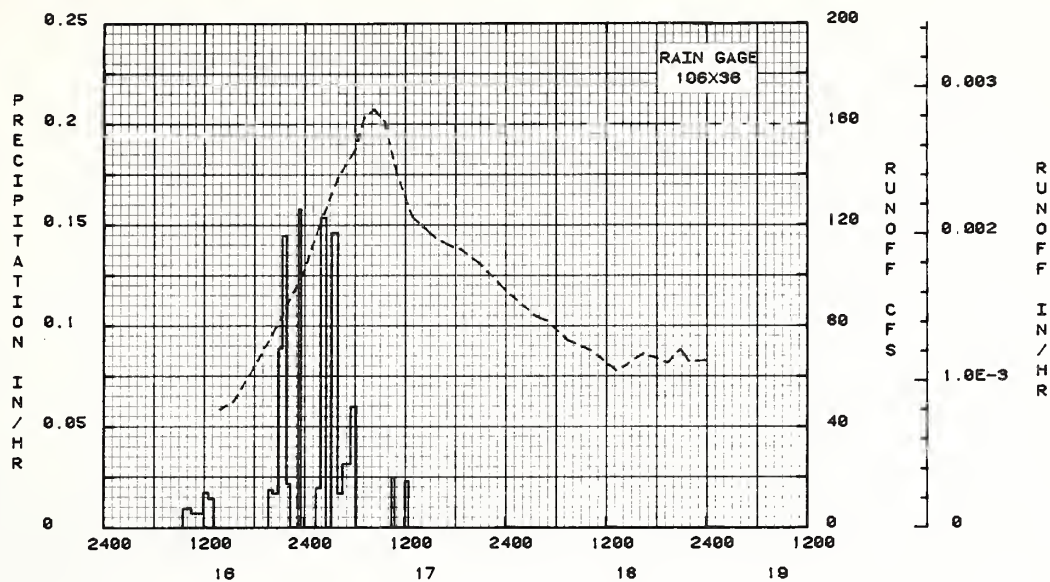
NOTES: To convert CFS to IN/HR, multiply by 0.00001719.



EVENT OF APRIL 13 - 15, 1973
REYNOLDS, IDAHO WATERSHED W-1 (036068)

1973	SELECTED RONOFF EVENT			REYNOLDS, IDAHO WATERSHED W-1 (036068)							
ANTECEDENT CONDITIONS			RAINFALL				RONOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 16 - 18, 1973											
RG 106X36			RG 106X36								
4-16	0.0	0.014	4-16	927	0.0	0.0	4-16	1356	47.054	0.0	
				1030	0.0095	0.01		1532	50.113	0.0013	
				1156	0.0070	0.02		1758	63.608	0.0037	
				1230	0.0176	0.03		2042	79.873	0.0071	
				1312	0.0143	0.04		2400	102.224	0.0122	
WATERSHED CONDITIONS: The event is combined rain and snowmelt.				1946	0.0	0.04	4-17	140	118.735	0.0154	
				2018	0.0188	0.05		358	138.708	0.0205	
				2054	0.0167	0.06		604	150.418	0.0257	
				2121	0.0889	0.10		708	162.774	0.0286	
				2150	0.1448	0.17		816	165.719	0.0318	
				2218	0.0214	0.18		930	160.831	0.0352	
				2318	0.0	0.18		1102	139.586	0.0392	
				2337	0.1579	0.23		1254	122.724	0.0434	
				4-17	125	0.0	0.23		1534	114.835	0.0488
					156	0.0194	0.24		1740	111.022	0.0529
				235	0.1538	0.34		1840	110.270	0.0548	
				317	0.0	0.34		2114	103.657	0.0595	
				358	0.1463	0.44		2400	93.910	0.0642	
				434	0.0167	0.45	4-18	340	83.551	0.0698	
				531	0.0316	0.48		500	81.698	0.0717	
611	0.0600	0.52		728	73.987	0.0750					
1023	0.0	0.52		1014	70.043	0.0784					
1047	0.0250	0.53		1314	62.062	0.0818					
1203	0.0	0.53									
1229	0.0231	0.54									

NOTES: To convert CFS to IN/HR, multiply by 0.00001719.



EVENT OF APRIL 16 - 18, 1973
REYNOLDS, IDAHO WATERSHED W-1 (036068)

REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.
Lat. 43 deg. 15 min. 21 sec. N.; Long. 116 deg. 45 min. 10 sec. W.

AREA: 8990.00 acres 14.05 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1973	P	1.29	0.76	1.43	3.93	0.51	0.71	0.38	0.19	2.09	0.92	3.79	3.40	19.39													
	Q	0.306	0.164	0.203	0.785	0.171	0.057	0.012	0.003	0.010	0.034	0.112	0.281	2.136													
STA AV	P	3.61	1.39	2.03	2.13	1.07	2.17	0.23	0.75	1.39	1.52	2.86	2.61	21.75													
	Q	0.796	0.385	0.536	0.480	0.279	0.133	0.026	0.034	0.022	0.046	0.093	0.185	3.016													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge Date	1 Hour Date	2 Hours Date	6 Hours Date	12 Hours Date	1 Day Date	2 Days Date	8 Days Date																		
1973		4-14 0.006	4-13 0.006	4-13 0.011	4-14 0.030	4-14 0.054	4-13 0.104	4-13 0.172	4-13 0.473																		
MAXIMUMS FOR PERIOD OF RECORD																											
		8-23 0.073	8-23 0.044	8-23 0.056	1-20 0.115	1-28 0.208	1-28 0.379	1-28 0.766	1-28 1.495																		
		1965	1965	1965	1969	1965	1965	1965	1965																		

NOTES: Watershed conditions: Predominantly sagebrush rangeland, 99%; irrigated pasture and hay crops, 1%. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 68.2-7. Records began 1963. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 9 rain gages. Station average precipitation amounts are based on 1968-73 data. Station average runoff amounts are based on record period (1963-73). For long-time precipitation records, see National Weather Service records at Boise, Idaho; 59 miles N.E. of watershed.

1973 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.02	0.00T	0.00T	0.0	0.0	0.0	0.00T	0.0	0.10	0.06															
2	0.03	0.0	0.00T	0.00T	0.0	0.0	0.0	0.00T	0.0	0.0	0.01	0.0															
3	0.01	0.00T	0.0	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.01	0.07															
4	0.0	0.02	0.0	0.0	0.04	0.0	0.0	0.03	0.0	0.0	0.01	0.0															
5	0.01	0.03	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0															
6	0.01	0.03	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.01	0.32	0.01															
7	0.00T	0.05	0.0	0.0	0.00T	0.0	0.0	0.0	0.28	0.19	0.55	0.13															
8	0.02	0.0	0.00T	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.16	0.0															
9	0.05	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0															
10	0.03	0.14	0.38	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.01	0.0															
11	0.22	0.00T	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.12	0.11															
12	0.47	0.21	0.01	0.02	0.0	0.0	0.0	0.00T	0.0	0.01	0.23	0.02															
13	0.01	0.15	0.12	2.08	0.0	0.00T	0.02	0.01	0.00T	0.0	0.20	0.08															
14	0.0	0.00T	0.0	0.66	0.0	0.26	0.03	0.00T	0.0	0.0	0.04	0.02															
15	0.0	0.02	0.0	0.0	0.0	0.00T	0.0	0.01	0.0	0.0	0.08	0.00T															
16	0.17	0.00T	0.00T	0.31	0.0	0.13	0.0	0.00T	0.0	0.0	0.07	0.18															
17	0.02	0.04	0.02	0.26	0.0	0.32	0.0	0.0	0.0	0.0	0.27	0.49															
18	0.09	0.00T	0.00T	0.09	0.00T	0.00T	0.0	0.0	0.0	0.0	0.20	0.0															
19	0.0	0.0	0.0	0.44	0.08	0.0	0.04	0.00T	0.10	0.0	0.0	0.0															
20	0.00T	0.0	0.39	0.0	0.00T	0.0	0.18	0.0	0.24	0.04	0.12	0.28															
21	0.0	0.0	0.25	0.0	0.0	0.0	0.00T	0.0	0.0	0.00T	0.06	0.12															
22	0.0	0.0	0.11	0.04	0.0	0.0	0.0	0.00T	0.00T	0.01	0.01	0.14															
23	0.0	0.0	0.0	0.00T	0.0	0.0	0.10	0.0	0.47	0.22	0.29	0.14															
24	0.00T	0.02	0.0	0.00T	0.22	0.0	0.0	0.0	0.84	0.05	0.23	0.02															
25	0.13	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.06	0.14	0.0	0.31	0.23															
26	0.01	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.07															
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.55															
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.09															
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.16	0.60															
30	0.00T	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.01	0.0															
31	0.01		0.01		0.0		0.0	0.04		0.06		0.0															
TOTAL	1.29	0.76	1.43	3.93	0.51	0.71	0.38	0.19	2.09	0.92	3.79	3.40															
STA AV	3.61	1.39	2.03	2.13	1.07	2.17	0.23	0.75	1.39	1.52	2.86	2.61															

NOTES: Values are Thiessen weighted average 'Actual' amounts from 9 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings WHO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 6 yr (1968-73) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1973	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.02	0.00T	0.00T	0.0	0.0	0.0	0.00T	0.0	0.06	0.04
2	0.03	0.0	0.00T	0.00T	0.0	0.0	0.0	0.00T	0.0	0.0	0.00T	0.0
3	0.01	0.00T	0.0	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.01	0.06
4	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.03	0.0	0.0	0.00T	0.0
5	0.00T	0.02	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0
6	0.01	0.02	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.01	0.26	0.00T
7	0.00T	0.04	0.0	0.0	0.00T	0.0	0.0	0.0	0.27	0.17	0.47	0.10
8	0.02	0.0	0.00T	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.13	0.0
9	0.03	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
10	0.02	0.10	0.19	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.01	0.0
11	0.16	0.00T	0.00T	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.09	0.08
12	0.34	0.14	0.00T	0.02	0.0	0.0	0.0	0.00T	0.0	0.01	0.17	0.01
13	0.00T	0.10	0.06	1.89	0.0	0.00T	0.02	0.01	0.00T	0.0	0.16	0.05
14	0.0	0.00T	0.0	0.58	0.0	0.21	0.03	0.00T	0.0	0.0	0.03	0.01
15	0.0	0.01	0.0	0.0	0.0	0.00T	0.0	0.01	0.0	0.0	0.04	0.00T
16	0.09	0.00T	0.00T	0.18	0.0	0.11	0.0	0.00T	0.0	0.0	0.04	0.12
17	0.01	0.04	0.01	0.16	0.0	0.30	0.0	0.0	0.0	0.0	0.17	0.34
18	0.05	0.00T	0.00T	0.05	0.00T	0.00T	0.0	0.0	0.0	0.0	0.09	0.0
19	0.0	0.0	0.0	0.26	0.08	0.0	0.04	0.00T	0.10	0.0	0.0	0.0
20	0.00T	0.0	0.25	0.0	0.00T	0.0	0.16	0.0	0.22	0.04	0.07	0.22
21	0.0	0.0	0.14	0.0	0.0	0.0	0.00T	0.0	0.0	0.00T	0.03	0.10
22	0.0	0.0	0.07	0.04	0.0	0.0	0.0	0.00T	0.00T	0.01	0.00T	0.09
23	0.0	0.0	0.0	0.00T	0.0	0.0	0.10	0.0	0.44	0.19	0.10	0.10
24	0.00T	0.02	0.0	0.00T	0.18	0.0	0.0	0.0	0.78	0.04	0.08	0.01
25	0.09	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.06	0.13	0.0	0.11	0.15
26	0.01	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.06
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.45
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.08
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.13	0.43
30	0.00T		0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
31	0.01		0.01		0.0		0.0	0.04		0.05		0.0
TOTAL	0.88	0.54	0.87	3.19	0.47	0.62	0.36	0.19	1.94	0.75	2.39	2.52
STA AV												

NOTES: Values are Thiessen weighted average amounts from 9 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1973	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.02	0.00T	0.00T	0.0	0.0	0.0	0.00T	0.0	0.03	0.05
2	0.03	0.0	0.00T	0.00T	0.0	0.0	0.0	0.00T	0.0	0.0	0.00T	0.0
3	0.01	0.00T	0.0	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.01	0.06
4	0.0	0.01	0.0	0.0	0.04	0.0	0.0	0.03	0.0	0.0	0.01	0.0
5	0.01	0.02	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0
6	0.01	0.03	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.01	0.31	0.00T
7	0.00T	0.04	0.0	0.0	0.00T	0.0	0.0	0.0	0.27	0.18	0.52	0.12
8	0.02	0.0	0.00T	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.15	0.0
9	0.04	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0
10	0.03	0.12	0.28	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.01	0.0
11	0.20	0.00T	0.00T	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.11	0.10
12	0.41	0.17	0.00T	0.02	0.0	0.0	0.0	0.00T	0.0	0.01	0.20	0.02
13	0.01	0.13	0.09	2.00	0.0	0.00T	0.02	0.01	0.00T	0.0	0.19	0.07
14	0.0	0.00T	0.0	0.62	0.0	0.24	0.03	0.00T	0.0	0.0	0.04	0.02
15	0.0	0.02	0.0	0.0	0.0	0.00T	0.0	0.01	0.0	0.0	0.06	0.00T
16	0.13	0.00T	0.00T	0.25	0.0	0.12	0.0	0.00T	0.0	0.0	0.06	0.15
17	0.01	0.04	0.02	0.21	0.0	0.31	0.0	0.0	0.0	0.0	0.22	0.42
18	0.07	0.00T	0.00T	0.07	0.00T	0.00T	0.0	0.0	0.0	0.0	0.15	0.0
19	0.0	0.0	0.0	0.34	0.08	0.0	0.04	0.00T	0.10	0.0	0.0	0.0
20	0.00T	0.0	0.32	0.0	0.00T	0.0	0.17	0.0	0.23	0.04	0.10	0.25
21	0.0	0.0	0.19	0.0	0.0	0.0	0.00T	0.0	0.0	0.00T	0.04	0.12
22	0.0	0.0	0.09	0.04	0.0	0.0	0.0	0.00T	0.00T	0.01	0.00T	0.13
23	0.0	0.0	0.0	0.00T	0.0	0.0	0.10	0.0	0.46	0.21	0.19	0.12
24	0.00T	0.02	0.0	0.00T	0.20	0.0	0.0	0.0	0.82	0.04	0.14	0.02
25	0.11	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.06	0.14	0.0	0.20	0.19
26	0.01	0.00T	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.07
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.50
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.08
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.15	0.51
30	0.00T		0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.01	0.0
31	0.01		0.01		0.0		0.0	0.04		0.06		0.0
TOTAL	1.11	0.65	1.13	3.58	0.49	0.68	0.37	0.19	2.03	0.85	3.12	3.00
STA AV												

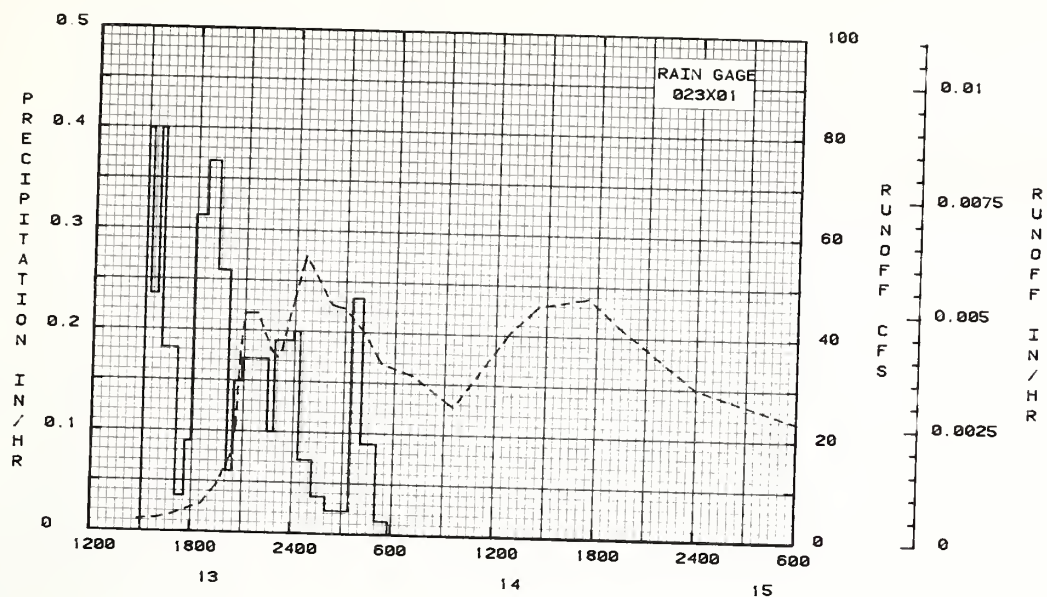
NOTES: Values are Thiessen weighted average amounts from 9 shielded recording gages. STA AV do not apply to shielded rain gage records.

1973 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	2.333	2.275	2.302	2.672	5.128	1.145	0.358	0.050	0.027	0.325	0.567	2.806
2	2.219	2.247	2.197	2.371	4.669	1.249	0.299	0.050	0.059	0.369	0.557	2.365
3	2.107	2.247	2.049	2.403	4.030	1.372	0.236	0.055	0.068	0.389	0.528	2.304
4	2.080	2.275	2.115	2.428	3.241	1.196	0.196	0.056	0.036	0.292	0.584	2.109
5	2.080	2.275	2.007	2.503	2.883	1.045	0.199	0.049	0.034	0.295	0.782	1.978
6	2.052	2.163	1.885	2.561	2.756	0.880	0.183	0.032	0.029	0.302	0.812	1.918
7	1.971	2.080	1.971	2.215	2.594	0.859	0.198	0.054	0.049	0.381	1.212	2.192
8	1.918	2.017	1.945	2.172	2.542	0.881	0.189	0.051	0.044	0.447	1.696	2.520
9	1.918	2.114	1.922	2.232	2.333	0.671	0.177	0.049	0.048	0.441	1.207	2.008
10	1.918	2.187	2.252	2.167	2.268	0.547	0.148	0.039	0.049	0.432	1.138	1.999
11	1.892	2.137	2.316	2.238	2.193	0.591	0.141	0.046	0.047	0.421	1.162	2.190
12	6.978	2.223	2.057	2.279	2.103	0.553	0.149	0.045	0.036	0.424	1.246	1.955
13	11.601	2.200	2.248	8.468	1.784	0.550	0.172	0.037	0.051	0.395	1.410	1.969
14	8.425	2.104	1.873	39.006	1.657	0.716	0.178	0.034	0.052	0.394	1.453	1.856
15	6.430	2.040	2.157	24.125	1.538	0.658	0.156	0.029	0.069	0.399	1.444	1.780
16	6.704	2.226	2.195	19.943	1.425	0.506	0.145	0.025	0.082	0.402	1.477	2.199
17	5.849	2.480	2.259	25.614	1.559	0.695	0.133	0.024	0.081	0.395	1.537	5.331
18	5.268	2.602	1.920	17.366	1.641	0.739	0.116	0.029	0.081	0.387	1.847	4.608
19	4.802	2.727	2.133	18.243	1.718	0.823	0.104	0.029	0.080	0.406	1.707	3.737
20	4.376	2.759	2.201	16.752	1.767	0.768	0.093	0.023	0.120	0.421	1.626	3.764
21	3.938	2.322	2.792	15.575	1.700	0.745	0.093	0.022	0.094	0.385	1.575	4.901
22	3.728	1.918	2.917	14.066	1.593	0.627	0.081	0.018	0.094	0.363	1.495	5.310
23	3.535	1.971	2.927	12.877	1.552	0.522	0.085	0.016	0.152	0.387	1.454	4.835
24	3.689	1.933	3.317	11.221	1.502	0.495	0.094	0.021	0.352	0.405	1.450	4.195
25	2.875	1.955	3.674	9.798	1.293	0.461	0.085	0.029	0.286	0.445	1.466	4.106
26	2.759	1.990	3.589	8.448	1.185	0.484	0.104	0.023	0.251	0.498	1.528	3.151
27	2.633	2.138	3.414	7.609	1.136	0.447	0.083	0.022	0.327	0.500	1.545	4.863
28	2.451	2.229	3.193	6.986	1.184	0.378	0.080	0.021	0.332	0.547	1.885	6.462
29	2.362		2.928	6.355	1.163	0.372	0.063	0.054	0.332	0.636	2.572	6.922
30	2.391		3.088	5.711	1.205	0.374	0.072	0.011	0.320	0.595	3.156	5.434
31	2.362		2.963		1.222		0.055	0.020		0.495		4.256
MEAN	3.7305	2.2084	2.4776	9.8802	2.0826	0.7116	0.1440	0.0343	0.1227	0.4184	1.4039	3.4200
INCHES	0.306	0.164	0.203	0.785	0.171	0.057	0.012	0.003	0.010	0.034	0.112	0.281
STA AV	0.796	0.385	0.536	0.480	0.279	0.133	0.026	0.034	0.022	0.046	0.093	0.185

NOTES: To convert CFS to IN/DAY, multiply by 0.002648. STA AV amounts are based on 11 yr (1963-73) record period.

1973 SELECTED RUNOFF EVENT REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 13 - 15, 1973												
RG 023X01			RG 023X01									
4-13	0.0	0.004	4-13	1504	0.0	0.0	4-13	1454	2.362	0.0		
				1522	0.4000	0.12		1558	2.664	0.0003		
				1550	0.2357	0.23		1654	3.417	0.0006		
				1608	0.4000	0.35		1840	5.642	0.0015		
				1704	0.1821	0.52		1936	9.615	0.0023		
WATERSHED CONDITIONS: The event is combined rain and snowmelt. The pre- cipitation fell in the form of rain and snow.				1738	0.0353	0.54		2022	15.341	0.0033		
				1758	0.0900	0.57		2038	21.262	0.0039		
				1840	0.3143	0.79		2050	35.764	0.0045		
				1924	0.3682	1.06		2104	43.589	0.0055		
				2008	0.2591	1.25		2148	43.589	0.0091		
				2028	0.0600	1.27		2244	35.764	0.0131		
				2056	0.1500	1.34		2302	34.797	0.0143		
				2230	0.1723	1.61		2318	36.254	0.0154		
				2254	0.1000	1.65		2400	46.431	0.0185		
				2400	0.1909	1.86	4-14	38	55.040	0.0221		
			4-14	24	0.2000	1.94		214	45.280	0.0309		
				114	0.0720	2.00		258	44.712	0.0346		
				204	0.0360	2.03		412	39.809	0.0403		
				326	0.0220	2.06		514	33.848	0.0445		
				407	0.2341	2.22		706	31.552	0.0513		
				501	0.0889	2.30		934	25.426	0.0590		
				549	0.0125	2.31		1256	40.866	0.0713		
								1432	45.853	0.0790		
								1728	47.602	0.0941		
								1922	41.941	0.1035		
								2400	29.791	0.1218		
							4-15	630	23.508	0.1409		
								1234	20.196	0.1555		
								1442	20.196	0.1603		

NOTES: To convert CFS to IN/HR, multiply by .0001103.



EVENT OF APRIL 13 - 15, 1973
REYNOLDS, IDAHO SALMON CREEK WATERSHED (046017)

REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa; east flowing tributary to Reynolds Creek, Snake River Basin.
Lat. 43 deg. 14 min. 42 sec. N.; Long. 116 deg. 45 min. 30 sec. W.

AREA: 7846.00 acres 12.26 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)										
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	1.14	0.46	0.93	3.38	0.43	0.51	0.37	0.19	1.91	0.86	3.23	3.18	16.58			
	Q	0.266	0.127	0.186	0.734	0.116	0.027	0.003	0.001	0.001	0.001	0.047	0.213	1.722			
STA AV	P	3.11	1.14	1.69	1.75	0.85	1.89	0.22	0.76	1.24	1.28	2.38	2.36	18.66			
	Q	0.647	0.274	0.572	0.416	0.124	0.065	0.012	0.003	0.002	0.005	0.030	0.112	2.262			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		4-16	0.007	4-16	0.006	4-16	0.012	4-16	0.032	4-16	0.061	4-16	0.104	4-15	0.159	4-13	0.488
MAXIMUMS FOR PERIOD OF RECORD																	
		1-21	0.039	1-21	0.037	1-20	0.069	1-20	0.183	1-20	0.294	1-20	0.457	1-20	0.649	2-27	1.015
		1969		1969		1969		1969		1969		1969		1969		1972	

NOTES: Watershed conditions: The watershed topography is steep, except in the lower valley, with numerous basalt outcrops at the higher elevations. 98% is sagebrush rangeland with a varying cover of sagebrush, bitterbrush, mountain mahogany and willow with a fair cover of forage plants such as cheatgrass, bluebunch wheatgrass, and Idaho fescue. 35% of area has a vegetative cover of 0-25%, 33% of the area has a vegetative cover of 26-50%, 18% of area has a vegetative cover of 51-75%, and 12% of the area has a vegetative cover of 76-100%. 2% of area is in pasture and hay crops which receives limited irrigation. For map of Watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68.3-4. Records began 1963. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 12 rain gages. Station average precipitation amounts are based on 1968-73 record period. Station average streamflow amounts are based on 1963-73. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

1973		DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.00T	0.01	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.0	0.11	0.07	
	2	0.04	0.0	0.0	0.00T	0.0	0.0	0.0	0.00T	0.00T	0.0	0.0	0.0	
	3	0.00T	0.00T	0.0	0.0	0.02	0.0	0.0	0.12	0.0	0.0	0.00T	0.07	
	4	0.0	0.03	0.0	0.0	0.02	0.0	0.0	0.00T	0.0	0.0	0.01	0.01	
	5	0.00T	0.03	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	
	6	0.01	0.02	0.0	0.00T	0.0	0.0	0.00T	0.0	0.0	0.01	0.22	0.01	
	7	0.00T	0.06	0.0	0.0	0.00T	0.0	0.0	0.0	0.14	0.24	0.42	0.11	
	8	0.00T	0.00T	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.16	0.0	
	9	0.03	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.05	0.0	
	10	0.02	0.13	0.19	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.02	0.0	
	11	0.25	0.00T	0.01	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.14	0.11	
	12	0.34	0.04	0.02	0.01	0.00T	0.0	0.0	0.00T	0.0	0.01	0.21	0.01	
	13	0.00T	0.06	0.10	1.82	0.0	0.00T	0.01	0.00T	0.00T	0.0	0.14	0.03	
	14	0.01	0.00T	0.00T	0.68	0.0	0.12	0.04	0.00T	0.0	0.0	0.03	0.01	
	15	0.00T	0.02	0.0	0.0	0.0	0.00T	0.0	0.00T	0.0	0.0	0.09	0.00T	
	16	0.16	0.00T	0.00T	0.20	0.0	0.06	0.0	0.00T	0.0	0.0	0.11	0.17	
	17	0.01	0.02	0.03	0.19	0.0	0.33	0.0	0.0	0.0	0.0	0.21	0.48	
	18	0.05	0.00T	0.0	0.09	0.00T	0.0	0.0	0.0	0.0	0.0	0.19	0.00T	
	19	0.01	0.00T	0.00T	0.29	0.09	0.0	0.02	0.00T	0.02	0.00T	0.00T	0.0	
	20	0.00T	0.0	0.32	0.0	0.00T	0.0	0.19	0.0	0.32	0.09	0.11	0.33	
	21	0.0	0.0	0.10	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.07	0.15	
	22	0.00T	0.0	0.06	0.06	0.0	0.0	0.00T	0.00T	0.00T	0.0	0.00T	0.18	
	23	0.0	0.0	0.0	0.03	0.00T	0.0	0.10	0.0	0.48	0.29	0.19	0.12	
	24	0.02	0.01	0.0	0.00T	0.19	0.0	0.00T	0.0	0.87	0.02	0.14	0.03	
	25	0.14	0.00T	0.0	0.00T	0.00T	0.0	0.00T	0.03	0.08	0.0	0.31	0.14	
	26	0.00T	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.05	
	27	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.41	
	28	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.08	
	29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.12	0.63	
	30	0.01	0.07	0.0	0.0	0.0	0.00T	0.0	0.01	0.0	0.01	0.00T	0.0	
	31	0.04	0.01	0.01	0.0	0.0	0.0	0.0	0.02	0.07	0.07	0.0	0.0	
	TOTAL	1.14	0.46	0.93	3.38	0.43	0.51	0.37	0.19	1.91	0.86	3.23	3.18	
	STA AV	3.11	1.14	1.69	1.75	0.85	1.89	0.22	0.76	1.24	1.28	2.38	2.36	

NOTES: Values are Thiessen weighted average 'Actual' amounts from 12 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 6 yr (1968-73) record period. For temperature information, see table of daily maximum and minimum values included for Watershed 68.001.

1973 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.00T	0.01	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.0	0.10	0.06
2	0.04	0.0	0.0	0.00T	0.0	0.0	0.0	0.00T	0.00T	0.0	0.0	0.0
3	0.00T	0.00T	0.0	0.0	0.02	0.0	0.0	0.12	0.0	0.0	0.00T	0.06
4	0.0	0.02	0.0	0.0	0.02	0.0	0.0	0.00T	0.0	0.0	0.01	0.00T
5	0.00T	0.03	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0
6	0.01	0.02	0.0	0.00T	0.0	0.0	0.00T	0.0	0.0	0.01	0.20	0.01
7	0.0	0.04	0.0	0.0	0.00T	0.0	0.0	0.0	0.13	0.22	0.38	0.10
8	0.00T	0.00T	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.15	0.0
9	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.04	0.0
10	0.01	0.08	0.12	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.02	0.0
11	0.13	0.00T	0.01	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.11	0.08
12	0.24	0.03	0.01	0.01	0.00T	0.0	0.0	0.00T	0.0	0.01	0.18	0.01
13	0.00T	0.04	0.06	1.64	0.0	0.00T	0.01	0.00T	0.00T	0.0	0.11	0.02
14	0.00T	0.00T	0.00T	0.65	0.0	0.11	0.04	0.00T	0.0	0.0	0.02	0.01
15	0.00T	0.01	0.0	0.0	0.0	0.00T	0.0	0.00T	0.0	0.0	0.05	0.00T
16	0.12	0.00T	0.00T	0.14	0.0	0.05	0.0	0.00T	0.0	0.0	0.06	0.12
17	0.00T	0.02	0.02	0.14	0.0	0.29	0.0	0.0	0.0	0.0	0.11	0.36
18	0.03	0.00T	0.0	0.06	0.00T	0.0	0.0	0.0	0.0	0.0	0.09	0.00T
19	0.01	0.00T	0.00T	0.23	0.09	0.0	0.02	0.00T	0.02	0.00T	0.00T	0.0
20	0.00T	0.0	0.22	0.0	0.00T	0.0	0.19	0.0	0.31	0.08	0.06	0.21
21	0.0	0.0	0.06	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.02	0.10
22	0.00T	0.0	0.04	0.05	0.0	0.0	0.00T	0.00T	0.00T	0.0	0.00T	0.11
23	0.0	0.0	0.0	0.03	0.00T	0.0	0.10	0.0	0.45	0.24	0.07	0.08
24	0.01	0.01	0.0	0.00T	0.17	0.0	0.00T	0.0	0.76	0.02	0.05	0.02
25	0.09	0.00T	0.0	0.00T	0.00T	0.0	0.00T	0.03	0.07	0.0	0.10	0.11
26	0.00T	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.03
27	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.33
28	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.06
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.10	0.40
30	0.00T	0.07	0.0	0.0	0.0	0.00T	0.0	0.01	0.0	0.01	0.00T	0.0
31	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.02	0.07	0.07	0.00T	0.0
TOTAL	0.73	0.33	0.62	2.97	0.41	0.45	0.36	0.18	1.75	0.75	2.15	2.25
STA AV												

NOTES: Values are Thiessen weighted average amounts from 12 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1973 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.00T	0.01	0.00T	0.0	0.00T	0.0	0.0	0.00T	0.0	0.10	0.06
2	0.04	0.0	0.0	0.00T	0.0	0.0	0.0	0.00T	0.00T	0.0	0.0	0.0
3	0.00T	0.00T	0.0	0.0	0.02	0.0	0.0	0.12	0.0	0.0	0.00T	0.06
4	0.0	0.03	0.0	0.0	0.02	0.0	0.0	0.00T	0.0	0.0	0.01	0.00T
5	0.00T	0.03	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0
6	0.01	0.02	0.0	0.00T	0.0	0.0	0.00T	0.0	0.0	0.01	0.21	0.01
7	0.00T	0.05	0.0	0.0	0.00T	0.0	0.0	0.0	0.14	0.23	0.41	0.10
8	0.00T	0.00T	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.16	0.0
9	0.03	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.05	0.0
10	0.02	0.11	0.15	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.02	0.0
11	0.19	0.00T	0.01	0.0	0.0	0.0	0.0	0.00T	0.0	0.0	0.12	0.09
12	0.30	0.04	0.01	0.01	0.00T	0.0	0.0	0.00T	0.0	0.01	0.20	0.01
13	0.00T	0.05	0.08	1.74	0.0	0.00T	0.01	0.00T	0.00T	0.0	0.13	0.03
14	0.01	0.00T	0.00T	0.66	0.0	0.12	0.04	0.00T	0.0	0.0	0.02	0.01
15	0.00T	0.01	0.0	0.0	0.0	0.00T	0.0	0.00T	0.0	0.0	0.07	0.00T
16	0.15	0.00T	0.00T	0.17	0.0	0.06	0.0	0.00T	0.0	0.0	0.08	0.15
17	0.01	0.02	0.03	0.16	0.0	0.31	0.0	0.0	0.0	0.0	0.16	0.42
18	0.04	0.00T	0.0	0.08	0.00T	0.0	0.0	0.0	0.0	0.0	0.14	0.00T
19	0.01	0.00T	0.00T	0.26	0.09	0.0	0.02	0.00T	0.02	0.00T	0.00T	0.0
20	0.00T	0.0	0.27	0.0	0.00T	0.0	0.19	0.0	0.31	0.09	0.08	0.26
21	0.0	0.0	0.08	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.04	0.12
22	0.00T	0.0	0.05	0.06	0.0	0.0	0.00T	0.00T	0.00T	0.0	0.00T	0.14
23	0.0	0.0	0.0	0.03	0.00T	0.0	0.10	0.0	0.47	0.27	0.12	0.10
24	0.01	0.01	0.0	0.00T	0.18	0.0	0.00T	0.0	0.83	0.02	0.09	0.03
25	0.11	0.00T	0.0	0.00T	0.00T	0.0	0.00T	0.03	0.08	0.0	0.19	0.13
26	0.00T	0.0	0.0	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.04
27	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.37
28	0.00T	0.00T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.07
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.11	0.51
30	0.00T	0.07	0.0	0.0	0.0	0.00T	0.0	0.01	0.0	0.01	0.00T	0.0
31	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.02	0.07	0.07	0.00T	0.0
TOTAL	0.96	0.41	0.78	3.19	0.42	0.49	0.36	0.18	1.84	0.81	2.64	2.70
STA AV												

NOTES: Values are Thiessen weighted average amounts from 12 shielded recording gages. STA AV do not apply to shielded rain gage records.

1973 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.395	1.318	2.336	1.833	3.192	0.411	0.102	0.017	0.014	0.011	0.023	1.845
2	1.613	1.366	1.867	1.649	2.789	0.388	0.083	0.020	0.011	0.011	0.023	1.381
3	1.240	1.336	1.659	1.584	2.475	0.410	0.064	0.023	0.008	0.011	0.023	1.294
4	1.146	1.428	1.656	1.556	2.501	0.402	0.054	0.023	0.004	0.011	0.023	1.109
5	1.094	1.616	1.560	1.528	2.392	0.366	0.045	0.023	0.004	0.011	0.023	1.108
6	1.186	1.491	1.499	1.520	1.921	0.366	0.052	0.026	0.006	0.011	0.030	1.113
7	1.181	1.546	1.569	1.360	1.798	0.346	0.046	0.020	0.006	0.011	0.042	1.509
8	1.131	1.282	1.532	1.392	1.678	0.343	0.044	0.008	0.006	0.011	0.084	1.866
9	1.114	1.499	1.529	1.266	1.511	0.331	0.043	0.004	0.006	0.011	0.101	1.240
10	1.076	1.536	1.728	0.982	1.298	0.336	0.038	0.007	0.006	0.011	0.109	1.321
11	1.138	1.522	1.837	0.975	1.374	0.322	0.031	0.008	0.006	0.011	0.197	1.419
12	9.722	1.428	1.612	0.890	1.066	0.304	0.031	0.008	0.006	0.011	0.285	1.237
13	12.998	1.544	1.760	6.562	1.068	0.328	0.031	0.008	0.006	0.011	0.365	1.283
14	6.293	1.474	1.592	30.581	1.082	0.333	0.034	0.004	0.006	0.011	0.445	1.169
15	4.474	1.484	1.674	16.719	0.876	0.335	0.033	0.003	0.004	0.014	0.514	1.111
16	5.891	1.377	1.751	24.050	0.832	0.359	0.026	0.003	0.003	0.020	0.557	1.498
17	5.047	1.508	1.878	27.367	0.799	0.361	0.024	0.003	0.003	0.015	0.550	7.084
18	3.928	1.444	1.682	14.736	0.769	0.361	0.028	0.003	0.003	0.008	0.772	3.487
19	2.477	1.334	1.605	14.893	0.866	0.335	0.018	0.004	0.004	0.008	0.746	1.941
20	2.158	1.349	1.855	15.289	0.863	0.306	0.021	0.006	0.006	0.008	0.626	1.932
21	2.924	1.236	2.901	14.454	0.792	0.263	0.020	0.008	0.006	0.008	0.609	3.376
22	2.082	1.356	2.741	12.091	0.784	0.267	0.015	0.008	0.006	0.011	0.619	3.511
23	2.219	1.379	2.580	11.470	0.756	0.215	0.017	0.006	0.008	0.017	0.611	2.927
24	2.196	1.424	2.734	9.202	0.653	0.197	0.014	0.006	0.011	0.020	0.629	2.291
25	2.289	1.535	2.650	7.885	0.675	0.174	0.013	0.006	0.014	0.023	0.654	2.196
26	1.665	1.688	2.559	5.913	0.656	0.160	0.016	0.006	0.017	0.023	0.728	1.562
27	1.229	2.143	2.299	3.544	0.612	0.146	0.015	0.008	0.014	0.023	0.797	3.542
28	1.974	2.334	2.334	3.841	0.572	0.129	0.016	0.014	0.011	0.023	1.065	4.445
29	1.673		2.151	3.504	0.545	0.113	0.016	0.017	0.011	0.023	1.577	5.647
30	1.597		2.056	3.334	0.491	0.109	0.015	0.017	0.011	0.023	2.582	3.037
31	1.456		2.077		0.465		0.013	0.017		0.023		1.874
MEAN	2.8260	1.4992	1.9762	8.0656	1.2306	0.2939	0.0329	0.0110	0.0077	0.0144	0.5137	2.2695
INCHES	0.266	0.127	0.186	0.734	0.116	0.027	0.003	0.001	0.001	0.001	0.047	0.213
STA AV	0.647	0.274	0.572	0.416	0.124	0.065	0.012	0.003	0.002	0.005	0.030	0.112

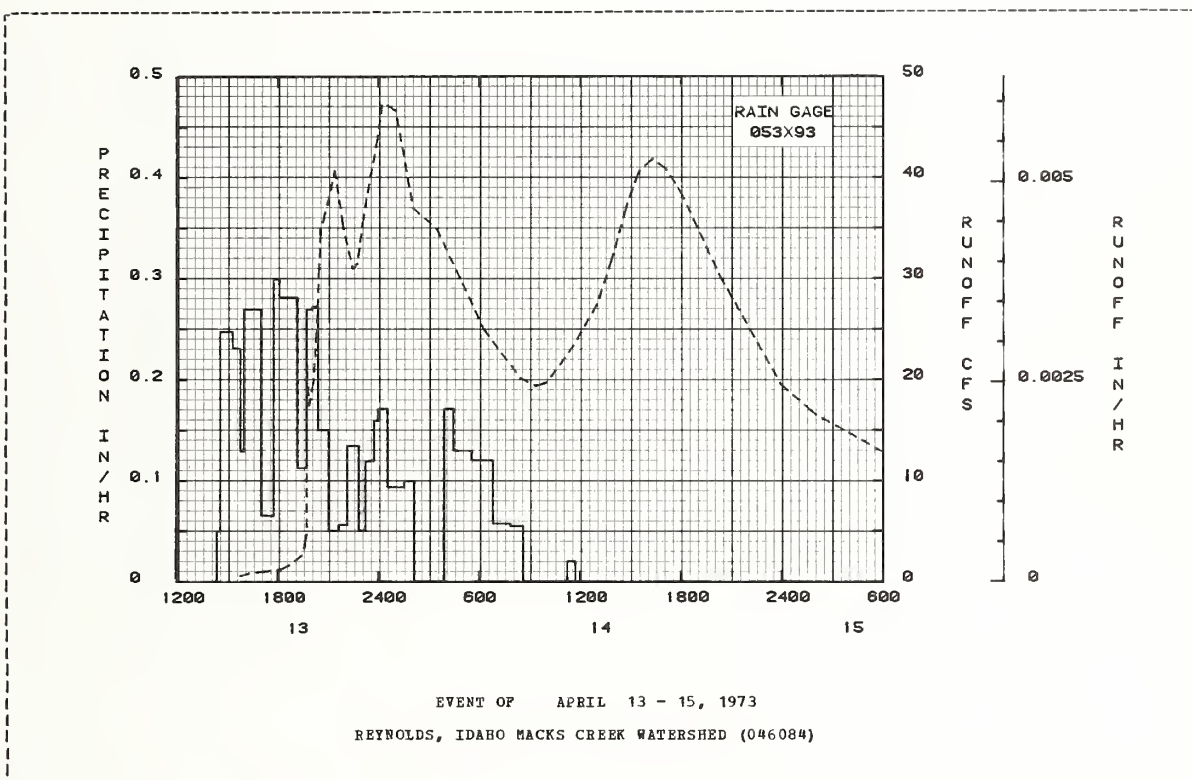
NOTES: To convert CFS to IN/DAY, multiply by 0.003034. STA AV amounts based on 11 yr (1963-73) record period.

1973 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 13 - 15, 1973											
RG 053X93			RG 053X93								
4-13	0.0	0.001	4-13	1423	0.0	0.0	4-13	1548	0.645	0.0	
				1435	0.0500	0.01		1618	0.867	0.0001	
				1521	0.2478	0.20		1706	1.004	0.0001	
				1547	0.2308	0.30		1810	1.228	0.0003	
				1601	0.1286	0.33		1842	1.665	0.0004	
WATERSHED CONDITIONS: The event is combined rain and snowmelt. The pre- cipitation fell in the form of rain and snow.				1701	0.2700	0.60		1926	2.606	0.0006	
				1747	0.0652	0.65		1938	3.549	0.0007	
				1807	0.3000	0.75		1944	4.711	0.0007	
				1913	0.2818	1.06		1946	21.506	0.0008	
				1945	0.1125	1.12		1954	17.422	0.0011	
				2005	0.2700	1.21		2010	20.081	0.0017	
				2027	0.2727	1.31		2022	24.957	0.0023	
				2103	0.1500	1.40		2030	31.495	0.0028	
				2139	0.0500	1.43		2036	34.901	0.0032	
				2211	0.0563	1.46		2046	35.917	0.0040	
				2251	0.1350	1.55		2126	40.736	0.0072	
				2315	0.0500	1.57		2158	34.901	0.0097	
				2345	0.1200	1.63		2230	31.027	0.0120	
				2400	0.1600	1.67		2246	31.495	0.0130	
			4-14	35	0.1714	1.77		2310	36.433	0.0147	
				133	0.0931	1.86		2400	44.177	0.0190	
				209	0.1000	1.92	4-14	14	47.188	0.0203	
				355	0.0	1.92		34	47.188	0.0223	
				430	0.1714	2.02		104	46.575	0.0253	
				535	0.1292	2.16		206	36.953	0.0307	
				650	0.1200	2.31		330	34.901	0.0371	
				753	0.0571	2.37		618	24.957	0.0477	
				837	0.0545	2.41		830	20.081	0.0539	
				1115	0.0	2.41		922	19.393	0.0561	
				1145	0.0200	2.42		1002	19.735	0.0577	

NOTES: To convert CFS to IN/HR, multiply by .00012640.

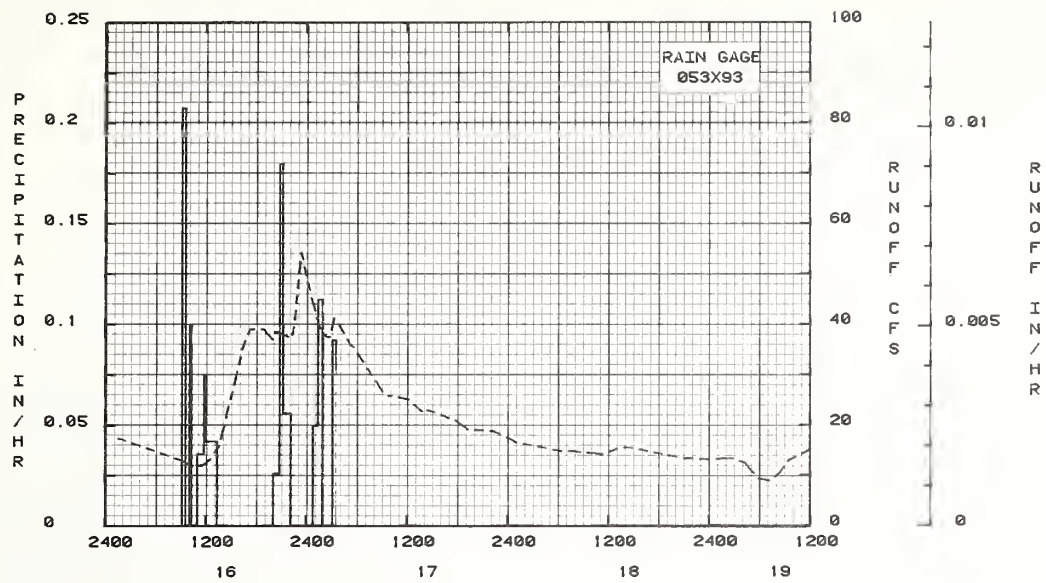
1973			REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)								
SELECTED RUNOFF EVENT											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 13 - 15, 1973 (CONTINUED)											
						4-14	1138	23.381	0.0621		
							1302	27.450	0.0666		
							1400	32.444	0.0703		
							1450	37.479	0.0739		
							1532	40.736	0.0774		
							1620	41.862	0.0816		
							1710	40.736	0.0859		
							1800	38.545	0.0901		
							2022	30.105	0.1004		
							2400	19.393	0.1118		
						4-15	202	16.489	0.1164		

NOTES: To convert CFS to IN/HR, multiply by .00012640.



1973			REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)							
SELECTED RUNOFF EVENT			RAINFALL				RUNOFF			
ANTECEDENT CONDITIONS			Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	Runoff (inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 16 - 19, 1973										
4-16	RG 053X93 0.0	0.004	4-16	RG 053X93 911	0.0	0.0	4-16	136	17.422	0.0
				937	0.2077	0.09		904	13.054	0.0144
				1007	0.0	0.09		1028	11.825	0.0166
				1019	0.1000	0.11		1136	12.075	0.0183
				1101	0.0	0.11		1238	13.353	0.0199
WATERSHED CONDITIONS: The event is combined rain and snowmelt.				1151	0.0360	0.14		1338	15.886	0.0218
				1159	0.0750	0.15		1416	20.081	0.0232
				1325	0.0419	0.21		1446	23.768	0.0246
				2007	0.0	0.21		1538	29.202	0.0275
				2053	0.0261	0.23		1626	35.407	0.0308
				2113	0.1800	0.29		1718	39.085	0.0349
				2119	0.1000	0.30		1750	39.085	0.0375
				2213	0.0556	0.35		1856	39.085	0.0429
			4-17	51	0.0	0.35		1958	36.953	0.0479
				127	0.0500	0.38		2026	38.545	0.0501
				159	0.1125	0.44		2156	37.479	0.0574
				311	0.0	0.44		2224	38.009	0.0596
				337	0.0923	0.48		2242	41.297	0.0611
								2312	50.978	0.0640
								2328	54.287	0.0658
							4-17	2400	49.693	0.0693
								52	44.177	0.0744
								142	39.085	0.0788
								226	37.479	0.0824
								254	37.479	0.0846
								322	41.297	0.0869
								402	39.630	0.0903
								518	35.917	0.0964
								540	35.407	0.0980
								650	32.444	0.1030
								906	26.602	0.1115
								950	25.770	0.1139
								1010	25.770	0.1150
								1212	24.957	0.1215
								1350	22.618	0.1264
								1426	22.998	0.1281
								1756	20.786	0.1378
								1916	19.054	0.1412
								2218	18.720	0.1484
								2400	17.422	0.1523
							4-18	102	16.489	0.1545
								626	14.724	0.1652
								746	14.724	0.1677
								1120	14.165	0.1742
								1302	15.297	0.1773
								1358	15.590	0.1792
								2110	13.286	0.1923
								2400	13.054	0.1970
							4-19	136	13.353	0.1997
								248	13.286	0.2017
								416	12.325	0.2041
								518	10.358	0.2056
								556	9.234	0.2063
								706	8.818	0.2077
								820	10.358	0.2092
								930	13.054	0.2109
								1136	14.724	0.2146

NOTES: To convert CFS to IN/HR, multiply by .00012640.



EVENT OF APRIL 16 - 19, 1973
REYNOLDS, IDAHO MACKS CREEK WATERSHED (046084)

REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)

LOCATION: Owyhee County, Idaho; 40 miles south of Hampa; main stem of Reynolds Creek which is tributary to the Snake River. Lat. 43 deg. 8 min. 33 sec. N.; Long. 116 deg. 45 min. 42 sec. W.

AREA: 13453.00 acres 21.02 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)													
		Jan	Feb	Mar	Apr	May	Jnn	Jul	Aug	Sep	Oct	Nov	Dec	Annna1					
1973	P	2.53	1.36	1.56	3.46	1.24	0.70	0.84	0.39	1.89	1.39	6.68	4.88	26.92					
	Q	0.459	0.209	0.357	1.635	2.223	0.370	0.078	0.009	0.035	0.072	0.168	0.259	5.873					
STA AV	P	5.57	2.38	2.50	2.21	1.32	2.03	0.52	1.15	1.37	2.02	4.01	4.36	29.41					
	Q	0.888	0.588	1.193	1.741	3.439	1.523	0.241	0.046	0.039	0.087	0.170	0.248	10.202					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Runr		2 Runrs		Maximum Volume for Selected Time Interval		6 Hours		12 Runrs		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		4-17	0.011	4-16	0.010	4-16	0.020	4-16	0.053	4-16	0.089	4-16	0.150	4-16	0.238	5- 7	0.764		
MAXIMUMS FOR PERIOD OF RECORD																			
		1-21	0.030	1-21	0.029	1-21	0.057	1-21	0.157	1-21	0.283	1-20	0.454	1-20	0.612	5- 4	1.856		
		1965		1969		1969		1969		1969		1969		1969		1969		1971	

NOTES: Watershed conditions - Watershed is generally sagebrush rangeland except for scattered stands of Douglas fir and aspen and mountain meadows. The topography is steep with numerous rock outcrops on the ridges. The watershed is used mainly for cattle grazing except during the winter when snow blankets most of the area. Vegetation consists predominantly of big sagebrush, little sagebrush, rabbitbrush, snowberry, blue bunch wheatgrass, Idaho fescue, and squirreltail grass. 25% of the area has a vegetative cover of 0-25%, 15% of the area has a vegetative cover of 26-50%, 15% of the area has a vegetative cover of 51-75%, and 45% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.4-6. Records began: Precipitation - 1963; Runoff - 1967. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 16 rain gages. Station average precipitation amounts are based on 1968-73 record period. Station average runoff amounts are based on 1967-73 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho; 50 miles N.E. of watershed.

SNOW COURSE DATA: DATE OF MEASUREMENT/AVERAGE WATER CONTENT (INCHES)												
Course#	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches
144062	010973	2.40	012373	3.45	020773	5.40	022173	6.22	030673	5.40	032073	6.95
144062	040373	7.20	041773	2.15	112773	4.50	121473	6.20	122973	9.70		
155054	010973	3.00	012373	4.30	020773	5.10	022173	6.20	030673	6.70	032073	6.65
155054	040273	4.70	112773	4.00	121373	4.50	122973	8.40				
163020	010973	7.80	012373	10.60	020773	12.90	022173	14.00	030673	14.30	032073	15.60
163020	040273	16.00	041773	19.50	050173	18.90	051473	13.40	112773	10.30	121473	11.30
163020	122973	17.00										
163098	010973	7.60	012373	10.70	020773	12.50	022173	14.10	030673	14.70	032073	15.70
163098	040273	17.10	041773	17.40	050173	14.40	051473	3.31	112773	8.30	121473	10.30
163098	122973	15.60										
167007	010873	4.40	012273	9.50	020673	7.10	022073	8.30	030573	8.80	031973	10.00
167007	040373	9.80	041673	9.20	043073	4.42	112673	5.60	121473	6.30	122973	9.00
174026	010973	6.50	012373	9.60	020773	12.60	022173	13.40	030673	13.75	032073	15.20
174026	040273	15.50	041773	16.80	050173	12.70	051473	2.40	112773	7.80	121473	9.40
174026	122973	15.60										

NOTES: For snow course location information, see map on p. 68.001-6 of Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1968, USDA Misc. Pub. 1330.

1973 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0 T	0.0 T	0.04	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.16
2	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0 T	0.0 T
3	0.0 T	0.01	0.0	0.0	0.04	0.0	0.0	0.09	0.0	0.0	0.04	0.04
4	0.0 T	0.33	0.0	0.0	0.14	0.0	0.0	0.12	0.0 T	0.0	0.01	0.01
5	0.0 T	0.28	0.0	0.0	0.05	0.0	0.0	0.0 T	0.0	0.0	0.34	0.0
6	0.02	0.02	0.0 T	0.0	0.01	0.0	0.0	0.0	0.0 T	0.09	0.12	0.02
7	0.0 T	0.06	0.01	0.0	0.0	0.0	0.0	0.0	0.17	0.45	0.97	0.11
8	0.01	0.01	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.24	0.0
9	0.04	0.08	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0 T	0.05	0.0
10	0.04	0.29	0.48	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.04	0.0
11	0.28	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.15	0.21
12	0.83	0.14	0.04	0.01	0.0	0.0	0.0 T	0.0	0.0	0.03	0.32	0.07
13	0.0 T	0.05	0.19	1.36	0.0	0.0 T	0.03	0.0	0.0 T	0.0	0.33	0.12
14	0.01	0.0 T	0.0	0.55	0.0	0.35	0.12	0.0	0.0	0.0	0.29	0.05
15	0.0 T	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0
16	0.46	0.0 T	0.0	0.69	0.0	0.04	0.0	0.0	0.0	0.0	0.32	0.06
17	0.08	0.07	0.08	0.39	0.0	0.30	0.0	0.0	0.0	0.0	0.32	0.70
18	0.27	0.0 T	0.0 T	0.16	0.01	0.0 T	0.0 T	0.0	0.0	0.0	0.38	0.01
19	0.0	0.0	0.0 T	0.22	0.07	0.0	0.06	0.0	0.02	0.0	0.01	0.0 T
20	0.0	0.0	0.30	0.0 T	0.0 T	0.0	0.54	0.0	0.48	0.19	0.35	0.42
21	0.0 T	0.0 T	0.15	0.0 T	0.0	0.0	0.02	0.0	0.0	0.0	0.44	0.12
22	0.0	0.0	0.03	0.06	0.0	0.0 T	0.05	0.0	0.0 T	0.01	0.08	0.37
23	0.0	0.0	0.0	0.02	0.0	0.0	0.02	0.0	0.46	0.30	0.33	0.25
24	0.06	0.01	0.0	0.0	0.78	0.0	0.0	0.0	0.70	0.06	0.22	0.07
25	0.21	0.0 T	0.0	0.0	0.01	0.0	0.0	0.06	0.06	0.0 T	0.65	0.16
26	0.02	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.07
27	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.99
28	0.0	0.0 T	0.0 T	0.0	0.0	0.01	0.0	0.0	0.0	0.07	0.0 T	0.18
29	0.01	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.10	0.69
30	0.06	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01	0.0 T
31	0.06	0.01	0.0	0.0	0.0	0.0	0.0	0.08	0.18	0.18	0.0	0.0
TOTAL	2.53	1.36	1.56	3.46	1.24	0.70	0.84	0.39	1.89	1.39	6.68	4.88
STA AV	5.57	2.38	2.50	2.21	1.32	2.03	0.52	1.15	1.37	2.02	4.01	4.36

NOTES: Values are Thiessen weighted average 'Actual' amounts from 16 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 6 yr (1968-73) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1973 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0 T	0.0 T	0.04	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.11
2	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0 T	0.0 T
3	0.0 T	0.01	0.0	0.0	0.03	0.0	0.0	0.08	0.0	0.0	0.02	0.03
4	0.0 T	0.15	0.0	0.0	0.12	0.0	0.0	0.12	0.0 T	0.0	0.01	0.0 T
5	0.0 T	0.12	0.0	0.0	0.04	0.0	0.0	0.0 T	0.0	0.0	0.25	0.0
6	0.02	0.01	0.0 T	0.0	0.01	0.0	0.0	0.0	0.0 T	0.08	0.10	0.01
7	0.0 T	0.03	0.0 T	0.0	0.0	0.0	0.0	0.0	0.17	0.40	0.87	0.10
8	0.01	0.01	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.20	0.0
9	0.03	0.03	0.0 T	0.0	0.0	0.0	0.0	0.01	0.0	0.0 T	0.04	0.0
10	0.02	0.15	0.30	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.03	0.0
11	0.16	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.12	0.14
12	0.61	0.07	0.02	0.01	0.0	0.0	0.0 T	0.0	0.0	0.03	0.22	0.05
13	0.0 T	0.02	0.10	1.01	0.0	0.0 T	0.03	0.0	0.0 T	0.0	0.19	0.09
14	0.01	0.0 T	0.0	0.41	0.0	0.26	0.12	0.0	0.0	0.0	0.15	0.03
15	0.0 T	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0
16	0.31	0.0 T	0.0	0.44	0.0	0.03	0.0	0.0	0.0	0.0	0.14	0.05
17	0.04	0.06	0.07	0.26	0.0	0.25	0.0	0.0	0.0	0.0	0.13	0.51
18	0.16	0.0 T	0.0 T	0.08	0.01	0.0 T	0.0 T	0.0	0.0	0.0	0.19	0.0 T
19	0.0	0.0	0.0 T	0.12	0.07	0.0	0.06	0.0	0.02	0.0	0.0 T	0.0 T
20	0.0	0.0	0.23	0.0 T	0.0 T	0.0	0.53	0.0	0.46	0.14	0.15	0.26
21	0.0 T	0.0 T	0.11	0.0 T	0.0	0.0	0.02	0.0	0.0	0.0	0.19	0.07
22	0.0	0.0	0.02	0.03	0.0	0.0 T	0.05	0.0	0.0 T	0.0 T	0.03	0.22
23	0.0	0.0	0.0	0.02	0.0	0.0	0.02	0.0	0.42	0.24	0.14	0.15
24	0.03	0.01	0.0	0.0	0.71	0.0	0.0	0.0	0.63	0.04	0.09	0.04
25	0.12	0.0 T	0.0	0.0	0.0 T	0.0	0.0	0.06	0.04	0.0 T	0.26	0.09
26	0.01	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.04
27	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.51
28	0.0	0.0 T	0.0 T	0.0	0.0	0.01	0.0	0.0	0.0	0.05	0.0 T	0.10
29	0.01	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.08	0.41
30	0.03	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.01	0.0 T
31	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.08	0.14	0.14	0.0	0.0
TOTAL	1.67	0.68	1.02	2.38	1.12	0.55	0.83	0.38	1.74	1.12	3.91	3.01
STA AV												

NOTES: Values are Thiessen weighted average amounts from 16 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1973 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0 T	0.0 T	0.04	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.13
2	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0 T	0.0 T
3	0.0 T	0.01	0.0	0.0	0.03	0.0	0.0	0.09	0.0	0.0	0.03	0.04
4	0.0 T	0.23	0.0	0.0	0.13	0.0	0.0	0.12	0.0 T	0.0	0.01	0.01
5	0.0 T	0.19	0.0	0.0	0.05	0.0	0.0	0.0 T	0.0	0.0	0.30	0.0
6	0.02	0.02	0.0 T	0.0	0.01	0.0	0.0	0.0	0.0 T	0.09	0.11	0.01
7	0.0 T	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.17	0.43	0.93	0.10
8	0.01	0.01	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.22	0.0
9	0.04	0.05	0.01	0.0	0.0	0.0	0.0	0.01	0.0	0.0 T	0.04	0.0
10	0.03	0.22	0.38	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.04	0.0
11	0.22	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.13	0.18
12	0.72	0.11	0.03	0.01	0.0	0.0	0.0 T	0.0	0.0	0.03	0.27	0.06
13	0.0 T	0.03	0.14	1.18	0.0	0.0 T	0.03	0.0	0.0 T	0.0	0.26	0.11
14	0.01	0.0 T	0.0	0.48	0.0	0.31	0.12	0.0	0.0	0.0	0.23	0.04
15	0.0 T	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0
16	0.38	0.0 T	0.0	0.56	0.0	0.03	0.0	0.0	0.0	0.0	0.23	0.06
17	0.06	0.07	0.07	0.33	0.0	0.28	0.0	0.0	0.0	0.0	0.22	0.61
18	0.21	0.0 T	0.0 T	0.12	0.01	0.0 T	0.0 T	0.0	0.0	0.0	0.27	0.01
19	0.0	0.0	0.0 T	0.17	0.07	0.0	0.06	0.0	0.02	0.0	0.01	0.0 T
20	0.0	0.0	0.27	0.0 T	0.0 T	0.0	0.53	0.0	0.47	0.17	0.24	0.33
21	0.0 T	0.0 T	0.13	0.0 T	0.0	0.0	0.02	0.0	0.0	0.0	0.31	0.10
22	0.0	0.0	0.03	0.04	0.0	0.0 T	0.05	0.0	0.0 T	0.01	0.06	0.30
23	0.0	0.0	0.0	0.02	0.0	0.0	0.02	0.0	0.44	0.27	0.23	0.20
24	0.05	0.01	0.0	0.0	0.75	0.0	0.0	0.0	0.67	0.05	0.15	0.06
25	0.16	0.0 T	0.0	0.0	0.01	0.0	0.0	0.06	0.05	0.0 T	0.43	0.12
26	0.02	0.0 T	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.05
27	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.74
28	0.0	0.0 T	0.0 T	0.0	0.0	0.01	0.0	0.0	0.0	0.06	0.0 T	0.14
29	0.01	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0 T	0.09	0.55
30	0.05	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.01	0.0 T
31	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.08	0.16	0.0	0.0	0.0
TOTAL	2.11	1.01	1.29	2.91	1.19	0.63	0.83	0.39	1.82	1.27	5.26	3.95
STA AV												

NOTES: Values are Thiessen weighted average amounts from 16 shielded recording gages. STA AV do not apply to shielded rain gage records.

1973 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.196	4.722	7.342	6.351	43.281	13.417	2.825	0.297	0.409	0.858	1.825	4.204
2	3.809	4.732	5.796	6.032	48.755	13.725	2.569	0.295	0.421	0.910	1.158	3.529
3	3.891	4.628	5.188	6.638	50.151	13.770	2.319	0.499	0.361	0.915	1.033	3.438
4	3.933	4.128	4.966	8.791	51.260	11.871	2.114	0.620	0.253	0.966	1.148	2.954
5	3.892	4.432	4.679	13.260	52.920	10.643	2.036	0.259	0.175	0.954	1.461	3.173
6	3.809	4.206	4.515	12.963	52.524	9.708	1.939	0.073	0.131	0.877	1.956	3.037
7	3.809	4.118	4.851	10.533	52.318	9.050	1.883	0.087	0.270	1.747	3.779	3.919
8	3.728	4.009	4.971	10.552	58.876	8.455	1.745	0.087	0.535	1.540	8.042	4.032
9	3.648	4.143	5.051	11.573	57.024	8.010	1.574	0.087	0.476	1.298	3.870	2.977
10	3.648	4.169	6.471	15.044	53.386	7.381	1.348	0.068	0.371	1.191	3.591	3.407
11	3.648	3.976	6.511	18.170	51.865	6.957	1.294	0.050	0.260	1.227	3.411	3.321
12	13.994	3.912	5.557	22.814	52.497	6.578	1.284	0.050	0.209	1.248	3.513	3.179
13	36.593	3.809	5.736	26.186	54.377	6.452	1.540	0.045	0.185	1.205	3.433	3.161
14	16.767	3.817	5.224	33.645	55.075	8.071	1.803	0.057	0.189	1.165	3.429	2.971
15	11.437	3.638	5.304	30.391	51.821	7.037	1.417	0.066	0.273	1.205	3.567	2.885
16	25.686	3.763	5.695	45.732	47.757	6.522	1.136	0.060	0.398	1.192	3.862	3.727
17	16.144	3.794	6.197	79.412	44.879	7.952	0.883	0.062	0.398	1.205	4.039	14.106
18	11.225	3.787	5.261	45.126	41.554	6.900	0.819	0.085	0.322	1.172	4.019	7.699
19	8.810	4.059	5.437	39.008	41.142	6.049	0.891	0.080	0.341	1.188	2.936	5.292
20	12.548	4.158	7.047	33.391	37.468	5.104	1.776	0.057	0.956	1.405	2.779	5.448
21	8.727	3.701	8.517	32.001	32.572	4.435	2.287	0.045	0.885	1.425	3.047	6.673
22	7.857	3.828	7.178	33.591	28.595	3.998	1.720	0.062	0.714	1.372	3.019	5.947
23	7.699	3.693	6.723	43.954	25.571	4.029	1.445	0.062	0.963	1.580	2.801	5.394
24	6.711	3.830	9.030	40.926	30.972	3.890	1.241	0.076	2.647	1.828	2.818	4.706
25	6.276	4.044	11.372	40.581	31.084	3.695	1.001	0.237	2.279	1.842	2.714	4.585
26	5.481	4.370	10.516	46.527	24.322	3.445	0.844	0.340	1.404	1.581	2.981	4.573
27	4.954	5.314	8.568	57.733	20.954	3.228	0.702	0.333	1.097	1.503	2.853	5.412
28	4.381	7.090	7.441	58.153	18.756	3.012	0.566	0.248	0.990	1.530	3.246	6.114
29	4.506	6.719	48.951	16.465	2.790	0.450	0.200	0.868	1.571	3.844	6.441	
30	4.326	6.783	46.057	14.462	2.786	0.512	0.181	0.763	1.575	4.882	5.373	
31	4.104	6.927		14.011		0.353	0.209		1.577			4.595
MEAN	8.363	4.210	6.502	30.803	40.538	6.965	1.429	0.160	0.651	1.318	3.168	4.718
INCHES	0.459	0.209	0.357	1.635	2.223	0.370	0.078	0.009	0.035	0.072	0.168	0.259
STA AV	0.888	0.588	1.193	1.741	3.439	1.523	0.241	0.046	0.039	0.087	0.170	0.248

NOTES: To convert CFS to IN/DAY, multiply by 0.001769. STA AV amounts based on 7 yr (1967-73) record period.

1973

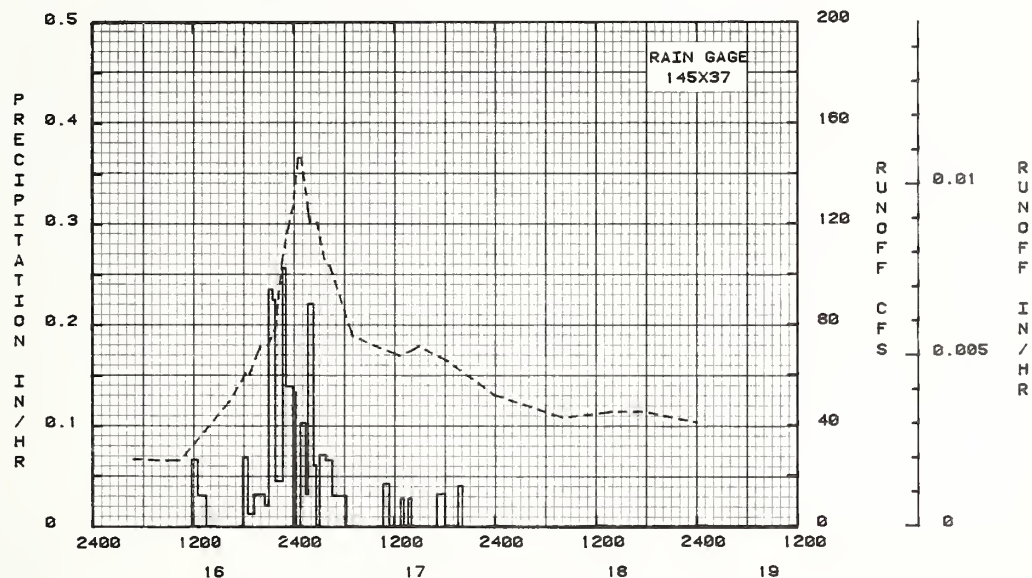
SELECTED RUHOFF EVENT

REYNOLDS, IDARO TOLLGATE WATERSRED (116083)

ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	Mo-Day	of Day	(cfs)
EVENT OF APRIL 16 - 18, 1973								
RG 145X37			RG 145X37					
4-16	0.0	0.011	4-16	1150	0.0	4-16	456	26.919
				1235	0.0667		754	26.185
				1334	0.0305		1026	26.185
				1757	0.0		1624	50.001
				1832	0.0686		1820	61.101
				1922	0.0120		1848	61.101
				2037	0.0320		2004	71.387
				2106	0.0207		2100	72.163
				2134	0.2357		2152	78.573
				2150	0.2250		2248	108.009
				2244	0.0444		2324	118.522
				2305	0.2571		2400	127.408
				2357	0.1385	4-17	38	146.489
				2400	0.0		58	146.489
			4-17	18	0.1333		146	126.273
				51	0.0		200	120.703
				126	0.1029		248	120.703
				145	0.0316		342	105.984
				223	0.2211		424	102.994
				243	0.0600		704	75.323
				309	0.0		1240	67.590
				351	0.0714		1454	71.387
				437	0.0652		1824	65.379
				617	0.0300		2400	51.853
				1040	0.0	4-18	758	43.035
				1123	0.0419			
				1247	0.0			
				1309	0.0273			
				1339	0.0			
				1401	0.0273			
				1707	0.0			
				1803	0.0321			
				1937	0.0			
				2007	0.0400			

WATERSRED CONDITIONS:
The event is combined rain
and snowmelt.

NOTES: To convert CFS to IN/RR, multiply by 0.00007372.

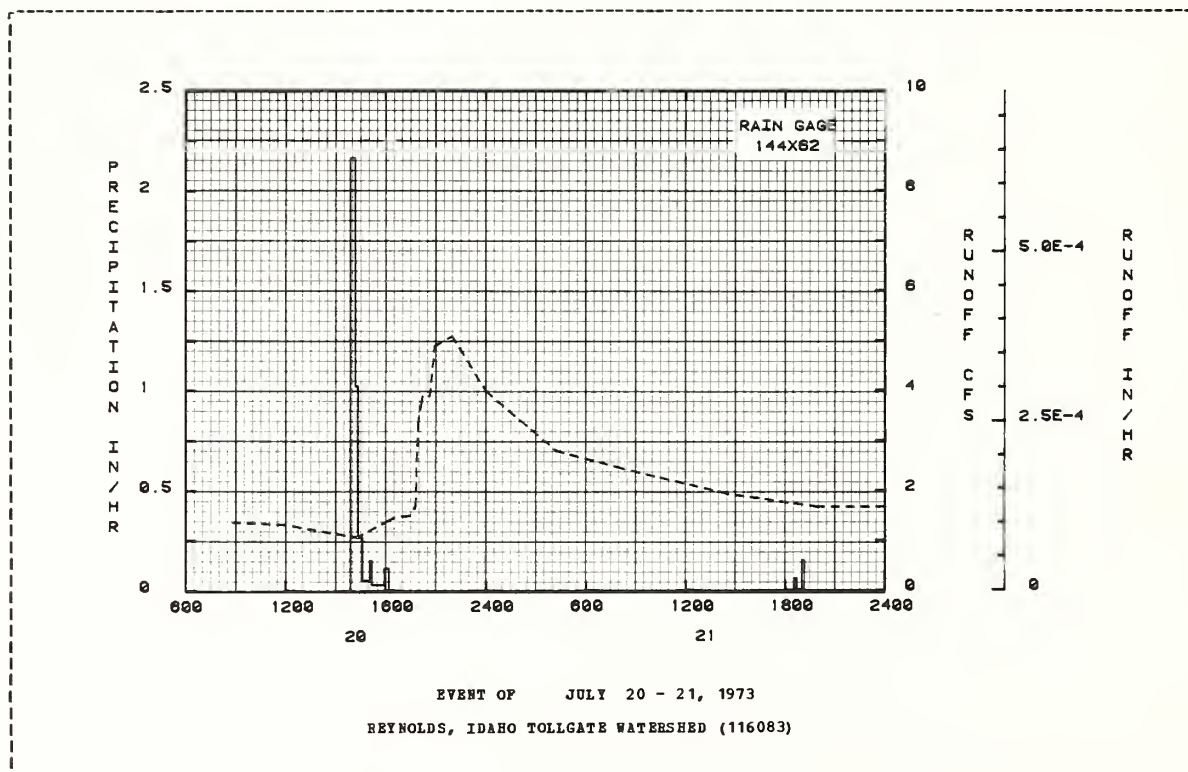


EVENT OF APRIL 16 - 18, 1973

REYNOLDS, IDARO TOLLGATE WATERSRED (116083)

1973 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO TOLLGATE WATERSHED (116083)							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
No-Day	(inches)	(inches)	No-Day	of Day	(in/hr)	(inches)	No-Day	of Day	(cfs)	(inches)
EVENT OF JULY 20 - 21, 1973										
7-20	RG 144X62 0.04	0.002	7-20	RG 144X62 1553	0.0	0.0	7-20			0.0
				1611	2.1668	0.65		848	1.371	0.0003
				1621	1.0200	0.82		1200	1.324	0.0007
				1637	0.2625	0.89		1612	1.056	0.0009
				1703	0.0462	0.91		1832	1.466	0.0010
WATERSHED CONDITIONS: Locally intense rainfall.					1711	0.1500	0.93	1928	1.514	0.0010
					1756	0.0267	0.95	1948	1.712	0.0010
					1812	0.1125	0.98	1956	3.343	0.0011
				7-21	1832	0.0	0.98	2012	3.891	0.0011
					1842	0.0600	0.99	2038	3.891	0.0013
				1900	0.0	0.99		2056	4.899	0.0014
				1908	0.1500	1.01		2158	5.103	0.0017
							7-21	2400	3.975	0.0024
								414	2.791	0.0035
								820	2.421	0.0043
								1434	1.918	0.0053
								1952	1.662	0.0060

NOTES: To convert CFS to IN/HR, multiply by 0.00007372.



REYNOLDS, IDARO MURPHY CREEK WATERSHED (043004)

LOCATION: Owyhee County, Idaho; 35 miles south of Nampa, Idaho; an east-flowing tributary to Reynolds Creek, tributary to the Snake River. Lat. 43 deg. 15 min. 21 sec. N.; Long. 116 deg. 49 min. 1 sec. W.

AREA: 306.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							REYNOLDS, IDARO MURPHY CREEK WATERSHED (043004)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	1.17	0.76	1.35	3.91	0.60	0.74	0.54	0.20	2.73	1.17	4.26	3.60	21.04					
	Q	0.759	0.352	0.497	2.085	0.502	0.130	0.006	0.000	0.001	0.023	0.156	0.626	5.137					
STA AV	P	3.59	1.44	2.03	2.08	1.11	2.56	0.27	0.68	1.40	1.61	2.93	2.76	22.44					
	Q	1.718	0.850	1.568	1.656	0.868	0.298	0.056	0.003	0.003	0.036	0.147	0.422	7.624					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		4-14	0.015	4-14	0.015	4-14	0.029	4-14	0.080	4-14	0.132	4-13	0.222	4-13	0.382	4-13	1.132		
MAXIMUMS FOR PERIOD OF RECORD																			
		1-27	0.060	1-21	0.050	1-20	0.096	1-20	0.261	1-20	0.445	1-20	0.720	1-20	1.050	3- 1	1.931		
		1970		1969		1969		1969		1969		1969		1969		1972			

NOTES: Watershed conditions: Watershed is sagebrush rangeland used almost exclusively for cattle grazing. Willows are common along watercourses and in seep areas. Vegetation consists largely of big sagebrush, bitterbrush, Idaho fescue, Sandberg bluegrass, bluebunch wheatgrass, squirreltail grass, and snowberry. 10% of the area has a vegetative cover of 0-25%, 35% of the area has a vegetative cover of 26-50%, 20% of the area has a vegetative cover of 51-75%, and 35% of the area has a vegetative cover of 76-100%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.11-6. Records started: Precipitation - 1963; Runoff - 1967. Precipitation: Thiessen weighted average 'Computed Actual' amounts from 3 rain gages. Station average precipitation amounts based on 1968-73 record period. Station average runoff amounts based on 1967-73 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1973 DAILY PRECIPITATION (inches)													REYNOLDS, IDARO MURPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec													
1	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.06	0.08													
2	0.04	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0													
3	0.00T	0.01	0.0	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.01	0.08													
4	0.0	0.04	0.0	0.0	0.04	0.0	0.0	0.00T	0.0	0.0	0.00T	0.0													
5	0.00T	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0													
6	0.01	0.05	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.02	0.33	0.02													
7	0.0	0.05	0.0	0.0	0.00T	0.0	0.0	0.0	0.25	0.28	0.50	0.15													
8	0.01	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.16	0.0													
9	0.05	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0													
10	0.01	0.12	0.33	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0													
11	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.15	0.11													
12	0.47	0.20	0.0	0.02	0.0	0.0	0.0	0.00T	0.0	0.03	0.25	0.0													
13	0.01	0.14	0.14	1.70	0.0	0.00T	0.04	0.01	0.01	0.0	0.28	0.04													
14	0.0	0.0	0.0	0.74	0.0	0.25	0.02	0.01	0.0	0.0	0.05	0.02													
15	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.19	0.0													
16	0.17	0.01	0.01	0.36	0.0	0.13	0.0	0.01	0.0	0.0	0.22	0.20													
17	0.02	0.03	0.02	0.42	0.0	0.36	0.0	0.0	0.0	0.0	0.36	0.46													
18	0.10	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0													
19	0.0	0.0	0.0	0.42	0.08	0.0	0.03	0.00T	0.0	0.0	0.0	0.0													
20	0.0	0.0	0.39	0.0	0.01	0.0	0.32	0.0	0.43	0.09	0.14	0.36													
21	0.0	0.0	0.27	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.05	0.16													
22	0.0	0.0	0.07	0.08	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.18													
23	0.0	0.0	0.0	0.01	0.0	0.0	0.12	0.0	0.55	0.38	0.28	0.12													
24	0.00T	0.02	0.0	0.02	0.31	0.0	0.0	0.0	1.34	0.08	0.21	0.01													
25	0.09	0.00T	0.0	0.01	0.0	0.0	0.01	0.05	0.15	0.0	0.33	0.14													
26	0.00T	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.02													
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.45													
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.05													
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.14	0.95													
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0													
31	0.01	0.02	0.0	0.0	0.0	0.0	0.0	0.04	0.07	0.0	0.0	0.0													
TOTAL	1.17	0.76	1.35	3.91	0.60	0.74	0.54	0.20	2.73	1.17	4.26	3.60													
STA AV	3.59	1.44	2.03	2.08	1.11	2.56	0.27	0.68	1.40	1.61	2.93	2.76													

NOTES: Values are Thiessen weighted average 'Actual' amounts from 3 recording pairs of gages (shielded and unshielded). 'Actual' amounts were computed as per relationship developed by W. R. Ramon, "Computing Actual Precipitation", Proceedings of WMO-IDRS Symposium, Gello, Norway, August, 1972. The equation used is: $\log_e (U/S) = \log_e (U/A) + 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 6 yr (1968-73) record period. For temperature information, see table of daily maximum and minimum values included for Watersheds 68.001 and 68.014.

1973	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.05	0.07
2	0.04	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.00T	0.00T	0.0	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.01	0.07
4	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.00T	0.0	0.0	0.00T	0.0
5	0.00T	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0
6	0.01	0.04	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.30	0.02
7	0.0	0.04	0.0	0.0	0.00T	0.0	0.0	0.0	0.24	0.23	0.48	0.14
8	0.01	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.15	0.0
9	0.04	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
10	0.01	0.08	0.14	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
11	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.11	0.10
12	0.36	0.13	0.0	0.02	0.0	0.0	0.0	0.00T	0.0	0.03	0.18	0.0
13	0.01	0.09	0.06	1.60	0.0	0.00T	0.04	0.01	0.01	0.0	0.23	0.04
14	0.0	0.0	0.0	0.64	0.0	0.20	0.02	0.01	0.0	0.0	0.04	0.02
15	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.08	0.0
16	0.12	0.01	0.01	0.13	0.0	0.11	0.0	0.01	0.0	0.0	0.09	0.16
17	0.01	0.03	0.01	0.17	0.0	0.32	0.0	0.0	0.0	0.0	0.14	0.39
18	0.07	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0
19	0.0	0.0	0.0	0.16	0.08	0.0	0.03	0.00T	0.0	0.0	0.0	0.0
20	0.0	0.0	0.19	0.0	0.01	0.0	0.30	0.0	0.37	0.07	0.05	0.30
21	0.0	0.0	0.11	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.02	0.14
22	0.0	0.0	0.04	0.08	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.14
23	0.0	0.0	0.0	0.01	0.0	0.0	0.12	0.0	0.48	0.31	0.09	0.09
24	0.00T	0.02	0.0	0.02	0.27	0.0	0.0	0.0	0.97	0.07	0.07	0.01
25	0.08	0.00T	0.0	0.01	0.0	0.0	0.01	0.05	0.11	0.0	0.10	0.10
26	0.00T	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.01
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.36
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.04
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.12	0.39
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0
31	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.04	0.0	0.06	0.0	0.0
TOTAL	0.91	0.56	0.68	2.90	0.54	0.63	0.51	0.20	2.17	1.00	2.56	2.59
STA AV												

NOTES: Values are Thiessen weighted average amounts from 3 unshielded recording gages. STA AV do not apply to unshielded rain gage records.

1973	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.00T	0.0	0.05	0.07
2	0.04	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.00T	0.00T	0.0	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.01	0.08
4	0.0	0.03	0.0	0.0	0.04	0.0	0.0	0.00T	0.0	0.0	0.00T	0.0
5	0.00T	0.03	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0
6	0.01	0.04	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.01	0.32	0.02
7	0.0	0.04	0.0	0.0	0.00T	0.0	0.0	0.0	0.24	0.26	0.49	0.15
8	0.01	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.15	0.0
9	0.05	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0
10	0.01	0.10	0.22	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
11	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.12	0.10
12	0.42	0.16	0.0	0.02	0.0	0.0	0.0	0.00T	0.0	0.03	0.22	0.0
13	0.01	0.12	0.10	1.65	0.0	0.00T	0.04	0.01	0.01	0.0	0.25	0.04
14	0.0	0.0	0.0	0.69	0.0	0.23	0.02	0.01	0.0	0.0	0.05	0.02
15	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.13	0.0
16	0.15	0.01	0.01	0.23	0.0	0.12	0.0	0.01	0.0	0.0	0.14	0.18
17	0.01	0.03	0.01	0.28	0.0	0.34	0.0	0.0	0.0	0.0	0.25	0.42
18	0.08	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.24	0.0
19	0.0	0.0	0.0	0.27	0.08	0.0	0.03	0.00T	0.0	0.0	0.0	0.0
20	0.0	0.0	0.28	0.0	0.01	0.0	0.31	0.0	0.40	0.08	0.09	0.34
21	0.0	0.0	0.18	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.03	0.15
22	0.0	0.0	0.05	0.08	0.0	0.0	0.0	0.00T	0.0	0.0	0.0	0.16
23	0.0	0.0	0.0	0.01	0.0	0.0	0.12	0.0	0.52	0.34	0.17	0.10
24	0.00T	0.02	0.0	0.02	0.29	0.0	0.0	0.0	1.16	0.08	0.13	0.01
25	0.09	0.00T	0.0	0.01	0.0	0.0	0.01	0.05	0.13	0.0	0.20	0.13
26	0.00T	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.02
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.41
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.04
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.13	0.64
30	0.0	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.00T	0.0
31	0.01	0.0	0.02	0.0	0.0	0.0	0.0	0.04	0.0	0.07	0.0	0.0
TOTAL	1.04	0.65	0.98	3.35	0.57	0.69	0.53	0.20	2.46	1.08	3.30	3.06
STA AV												

NOTES: Values are Thiessen weighted average amounts from 3 shielded recording gages. STA AV do not apply to shielded rain gage records.

1973 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.194	0.166	0.280	0.252	0.654	0.053	0.006	0.001	0.0	0.002	0.025	0.132
2	0.181	0.166	0.168	0.242	0.574	0.050	0.007	0.001	0.0	0.002	0.025	0.101
3	0.162	0.152	0.153	0.232	0.486	0.053	0.007	0.001	0.0	0.003	0.025	0.081
4	0.133	0.139	0.152	0.232	0.421	0.056	0.007	0.0 T	0.0	0.003	0.025	0.073
5	0.139	0.148	0.152	0.223	0.371	0.059	0.006	0.0	0.0	0.004	0.028	0.070
6	0.139	0.152	0.152	0.214	0.340	0.062	0.005	0.0	0.0	0.004	0.029	0.083
7	0.133	0.152	0.152	0.214	0.326	0.059	0.005	0.0	0.0	0.009	0.051	0.206
8	0.127	0.139	0.152	0.205	0.305	0.056	0.005	0.0	0.0	0.007	0.098	0.133
9	0.127	0.167	0.152	0.197	0.253	0.053	0.004	0.0	0.0	0.007	0.053	0.121
10	0.121	0.181	0.188	0.197	0.232	0.047	0.002	0.0	0.0	0.006	0.041	0.116
11	0.126	0.181	0.277	0.197	0.223	0.041	0.001	0.0	0.0	0.005	0.036	0.118
12	1.000	0.173	0.165	0.197	0.205	0.039	0.001	0.0	0.0	0.005	0.039	0.110
13	1.275	0.173	0.162	0.816	0.181	0.039	0.001	0.0	0.0	0.005	0.054	0.105
14	0.568	0.166	0.163	2.787	0.159	0.039	0.001	0.0	0.0	0.006	0.062	0.105
15	0.442	0.152	0.154	1.911	0.145	0.036	0.001	0.0	0.0	0.006	0.066	0.105
16	0.517	0.134	0.166	1.647	0.139	0.032	0.001	0.0	0.0	0.005	0.083	0.223
17	0.455	0.161	0.181	1.874	0.133	0.027	0.001	0.0	0.0	0.004	0.073	0.774
18	0.455	0.149	0.165	1.456	0.127	0.027	0.001	0.0	0.0	0.002	0.075	0.373
19	0.404	0.140	0.166	1.590	0.127	0.032	0.001	0.0	0.0	0.002	0.115	0.244
20	0.346	0.146	0.192	1.634	0.121	0.027	0.001	0.0	0.0	0.005	0.082	0.245
21	0.340	0.127	0.303	1.487	0.103	0.021	0.001	0.0	0.0	0.007	0.066	0.462
22	0.341	0.134	0.296	1.331	0.100	0.017	0.001	0.0	0.0	0.008	0.056	0.546
23	0.283	0.145	0.270	1.324	0.090	0.019	0.001	0.0	0.002	0.017	0.044	0.405
24	0.281	0.146	0.248	1.118	0.100	0.633	0.001	0.0	0.008	0.019	0.062	0.340
25	0.244	0.184	0.252	1.056	0.101	0.020	0.001	0.0	0.0	0.017	0.059	0.308
26	0.205	0.191	0.252	0.997	0.086	0.021	0.001	0.0	0.0	0.017	0.059	0.256
27	0.228	0.247	0.252	0.911	0.081	0.019	0.001	0.0	0.0 T	0.017	0.063	0.313
28	0.258	0.210	0.252	0.832	0.073	0.013	0.001	0.0	0.001	0.021	0.092	0.506
29	0.181		0.252	0.752	0.070	0.008	0.001	0.0	0.002	0.025	0.203	0.545
30	0.181		0.254	0.684	0.066	0.006	0.001	0.0	0.002	0.025	0.213	0.488
31	0.173		0.263		0.059		0.001	0.0		0.025		0.361
MEAN	0.3148	0.1615	0.2060	0.8936	0.2083	0.0556	0.0024	0.0001	0.0005	0.0094	0.0668	0.2597
INCHES	0.759	0.352	0.497	2.085	0.502	0.130	0.006	0.000	0.001	0.023	0.156	0.626
STA AV	1.718	0.850	1.568	1.656	0.868	0.298	0.056	0.003	0.003	0.036	0.147	0.422

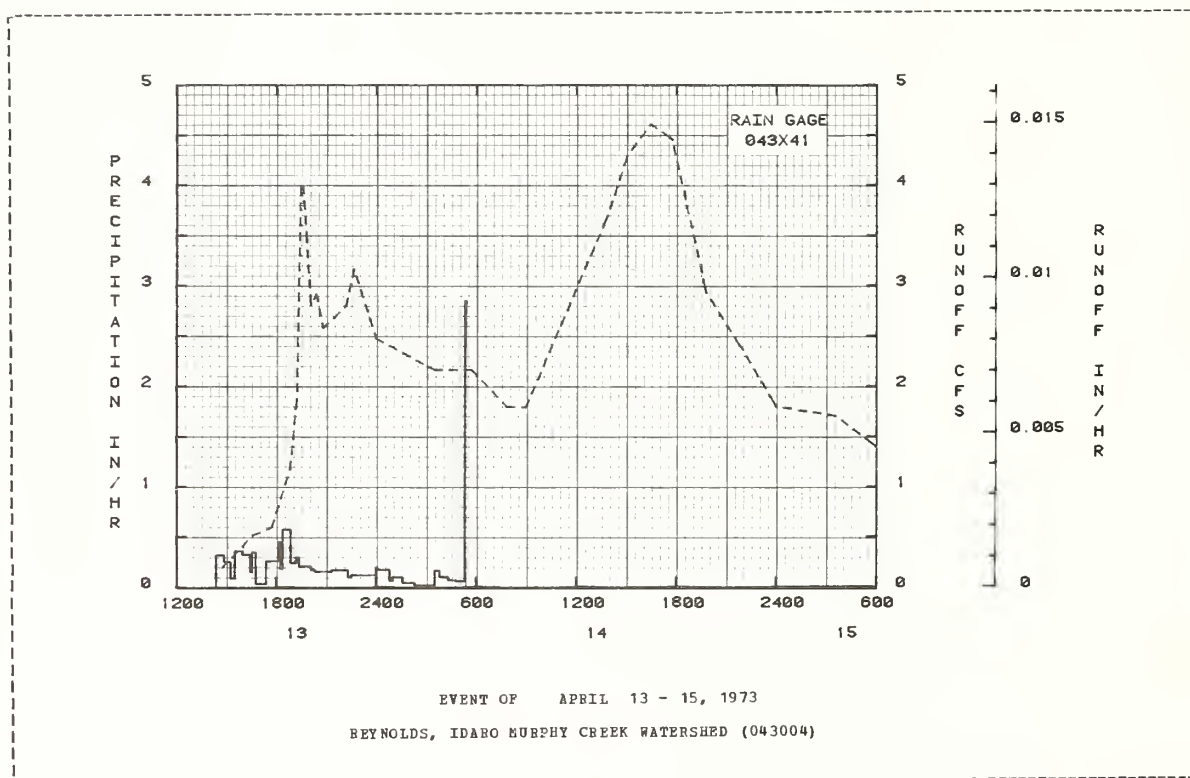
NOTES: To convert CFS to IN/DAY, multiply by 0.077783. STA AV based on 6 yr (1968-73) record period.

1973 SELECTED HUNOFF EVENT REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)												
ANTECEDENT CONDITIONS			HAINFALL				RUNOFF					
Date	Rainfall	Hunoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF APRIL 13 - 15, 1973												
RG 043X41												
4-13	0.0	0.009	4-13	1424	0.0	0.0	4-13	1448	0.197	0.0		
				1452	0.3214	0.15		1502	0.252	0.0002		
				1516	0.2500	0.25		1636	0.518	0.0021		
				1530	0.0857	0.27		1744	0.597	0.0042		
				1558	0.3643	0.44		1850	1.183	0.0073		
WATERSHED CONDITIONS: The event is combined rain and snowmelt. The precipitation fell in the form of rain and snow.												
				1626	0.3214	0.59		1914	1.878	0.0093		
				1634	0.1500	0.61		1928	3.991	0.0115		
				1646	0.3500	0.68		1936	3.991	0.0133		
				1724	0.0316	0.70		1950	3.429	0.0161		
				1810	0.2609	0.90		2004	2.803	0.0184		
				1814	0.4500	0.93		2024	2.922	0.0215		
				1824	0.1800	0.96		2048	2.576	0.0251		
				1852	0.5786	1.23		2212	2.803	0.0373		
				1912	0.2400	1.31		2240	3.168	0.0418		
				1922	0.3000	1.36		2400	2.467	0.0540		
				2006	0.2045	1.51	4-14	328	2.159	0.0800		
				2020	0.1714	1.55		542	2.159	0.0956		
				2120	0.1500	1.70		750	1.790	0.1092		
				2219	0.1729	1.87		858	1.790	0.1158		
				2231	0.1000	1.89		1352	3.703	0.1594		
			4-14	2400	0.1213	2.07		1502	4.294	0.1745		
				3	0.2000	2.08		1626	4.612	0.1947		
				49	0.1696	2.21		1744	4.451	0.2138		
				59	0.0600	2.22		1948	2.922	0.2385		
				135	0.1000	2.28		2158	2.361	0.2571		
				219	0.0409	2.31		2400	1.790	0.2708		
				331	0.0167	2.33	4-15	334	1.705	0.2910		
				349	0.1667	2.38		822	1.391	0.3150		
				419	0.1000	2.43						
				447	0.0643	2.46						

NOTES: To convert CFS to IN/HR, multiply by .003241

1973 SELECTED RUNOFF EVENT			REYNOLDS, IDAHO MURPHY CREEK WATERSHED (043004)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF APRIL 13 - 15, 1973 (CONTINUED)										
4-14			519		0.0563	2.49				
			523		2.8500	2.68				

NOTES: To convert CFS to IN/HR, multiply by .003241



REYNOLDS, IDAHO SUMMIT WATERSHED (048077)

LOCATION: Owyhee County, Idaho; 30 miles south of Nampa, Idaho, a west-flowing tributary to Reynolds Creek, tributary to the Snake River.

AREA: 205.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							REYNOLDS, IDAHO SUMMIT WATERSHED (048077)								
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	0.65	0.34	0.50	2.53	0.06	0.49	0.13	0.06	0.65	0.22	1.58	1.14	8.35	
	Q	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.011	
STA AV	P	1.59	0.47	0.78	0.86	0.59	1.52	0.08	0.81	0.71	0.78	1.23	1.11	10.52	
	Q	0.002	0.0	0.0	0.002	0.0	0.010	0.0	0.012	0.0	0.0	0.0	0.0	0.026	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval					2 Days		8 Days
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		4-13	0.008	4-13	0.005	4-13	0.006	4-13	0.006	4-13	0.007	4-13	0.011	4-12	0.011
		MAXIMUMS FOR PERIOD OF RECORD													
		6-19	0.258	6-19	0.059	6-19	0.059	6-19	0.070	6-20	0.070	6-20	0.070	6-19	0.070
		1969		1969		1969		1969		1969		1969		1969	1968

NOTES: Watershed conditions: Sagebrush rangeland with almost exclusive cattle grazing in early spring and late fall. Numerous barren ridges. Vegetation consists largely of big sagebrush, cheatgrass, Sandberg bluegrass, bluebunch wheatgrass, and squirreltail grass. 25% of the area has a vegetative cover of 0-25% and 75% of the area has a vegetative cover of 26-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.12-5. Records started: Precipitation - 1963; Runoff - 1967. Precipitation: 'Computed Actual' amounts from 1 rain gage. Station average precipitation amounts are based on 1968-73 period of record. Station average runoff amounts are based on 1967-73 period of record. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1973 DAILY PRECIPITATION (inches)														REYNOLDS, IDAHO SUMMIT WATERSHED (048077)													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0		1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.07	
2	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		2	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0		4	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0		5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	
6	0.02	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0		6	0.02	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	
7	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.11	0.37	0.04		7	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.11	0.37	0.04	
8	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.11	0.0		8	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.11	0.0	0.0	
9	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		9	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.02	0.06	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		10	0.02	0.06	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.25	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05		11	0.25	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
12	0.07	0.05	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.02		12	0.07	0.05	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.02	
13	0.0	0.04	0.0	1.38	0.0	0.0	0.02	0.0	0.0	0.0	0.07	0.01		13	0.0	0.04	0.0	1.38	0.0	0.0	0.02	0.0	0.0	0.0	0.07	0.01	
14	0.0	0.0	0.0	0.52	0.0	0.35	0.04	0.0	0.0	0.0	0.0	0.0		14	0.0	0.0	0.0	0.52	0.0	0.35	0.04	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.11	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.02		16	0.11	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.02	
17	0.0	0.02	0.0	0.03	0.0	0.11	0.0	0.0	0.0	0.0	0.27	0.07		17	0.0	0.02	0.0	0.03	0.0	0.11	0.0	0.0	0.0	0.0	0.27	0.07	
18	0.11	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0		18	0.11	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
19	0.0	0.0	0.0	0.15	0.03	0.0	0.05	0.0	0.02	0.0	0.0	0.0		19	0.0	0.0	0.0	0.15	0.03	0.0	0.05	0.0	0.02	0.0	0.0	0.0	
20	0.0	0.0	0.36	0.0	0.0	0.0	0.01	0.0	0.15	0.0	0.06	0.10		20	0.0	0.0	0.36	0.0	0.0	0.0	0.01	0.0	0.15	0.0	0.06	0.10	
21	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01		21	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
22	0.0	0.0	0.01	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05		22	0.0	0.0	0.01	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
23	0.0	0.0	0.0	0.02	0.0	0.0	0.01	0.0	0.15	0.04	0.11	0.04		23	0.0	0.0	0.0	0.02	0.0	0.0	0.01	0.0	0.15	0.04	0.11	0.04	
24	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.11	0.01		24	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.11	0.01	
25	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.02	0.0	0.07	0.03		25	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.02	0.0	0.07	0.03	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04		26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19		27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.19	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0		28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.39		29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.39	
30	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		30	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0		31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	
TOTAL	0.65	0.34	0.50	2.53	0.06	0.49	0.13	0.06	0.65	0.22	1.58	1.14		TOTAL	0.65	0.34	0.50	2.53	0.06	0.49	0.13	0.06	0.65	0.22	1.58	1.14	
STA AV	1.59	0.47	0.78	0.86	0.59	1.52	0.08	0.81	0.71	0.78	1.23	1.11		STA AV	1.59	0.47	0.78	0.86	0.59	1.52	0.08	0.81	0.71	0.78	1.23	1.11	

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 049X61. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Guello, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 6 yr (1968-73) record period. For temperature information, see table of daily maximum and minimum values included for 68.001.

1973	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SUMMIT WATERSHED (048077)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
2	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.07	
4	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
6	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	
7	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.11	0.33	0.04	
8	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.10	0.0	
9	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.01	0.04	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.17	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
12	0.05	0.03	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.02	
13	0.0	0.03	0.0	1.33	0.0	0.0	0.02	0.0	0.0	0.0	0.07	0.01	
14	0.0	0.0	0.0	0.49	0.0	0.35	0.04	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.04	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.02	
17	0.0	0.02	0.0	0.02	0.0	0.10	0.0	0.0	0.0	0.0	0.19	0.07	
18	0.04	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
19	0.0	0.0	0.0	0.10	0.03	0.0	0.05	0.0	0.02	0.0	0.0	0.0	
20	0.0	0.0	0.35	0.0	0.0	0.0	0.01	0.0	0.15	0.0	0.03	0.08	
21	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
22	0.0	0.0	0.01	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	
23	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0.0	0.15	0.04	0.04	0.03	
24	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.04	0.01	
25	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.02	0.0	0.03	0.03	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.19	
30	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
TOTAL	0.40	0.23	0.49	2.32	0.06	0.48	0.13	0.06	0.65	0.22	1.17	0.78	
STA AV													

NOTES: Values are amounts from unshielded recording gage 049461. STA AV do not apply to unshielded rain gage records.

1973	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO SUMMIT WATERSHED (048077)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
2	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.07	
4	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
6	0.02	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	
7	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.11	0.35	0.04	
8	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.11	0.0	
9	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.01	0.05	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.21	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
12	0.06	0.04	0.0	0.27	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.02	
13	0.0	0.03	0.0	1.36	0.0	0.0	0.02	0.0	0.0	0.0	0.07	0.01	
14	0.0	0.0	0.0	0.51	0.0	0.35	0.04	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.07	0.0	0.0	0.01	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.02	
17	0.0	0.02	0.0	0.02	0.0	0.11	0.0	0.0	0.0	0.0	0.23	0.07	
18	0.07	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
19	0.0	0.0	0.0	0.12	0.03	0.0	0.05	0.0	0.02	0.0	0.0	0.0	
20	0.0	0.0	0.36	0.0	0.0	0.0	0.01	0.0	0.15	0.0	0.04	0.09	
21	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.01	
22	0.0	0.0	0.01	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	
23	0.0	0.0	0.0	0.01	0.0	0.0	0.01	0.0	0.15	0.04	0.07	0.03	
24	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.0	0.08	0.01	
25	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.01	0.02	0.0	0.05	0.04	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.29	
30	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	
TOTAL	0.51	0.28	0.50	2.43	0.06	0.49	0.13	0.06	0.65	0.22	1.38	0.95	
STA AV													

NOTES: Values are amounts from shielded recording gage 049561. STA AV do not apply to shielded rain gage records.

1973 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO SUMMIT WATERSHED (048077)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.0	0.053	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.041	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0	0.0031	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
INCRS	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
STA AV	0.002	0.0	0.0	0.002	0.0	0.010	0.0	0.012	0.0	0.0	0.0	0.0

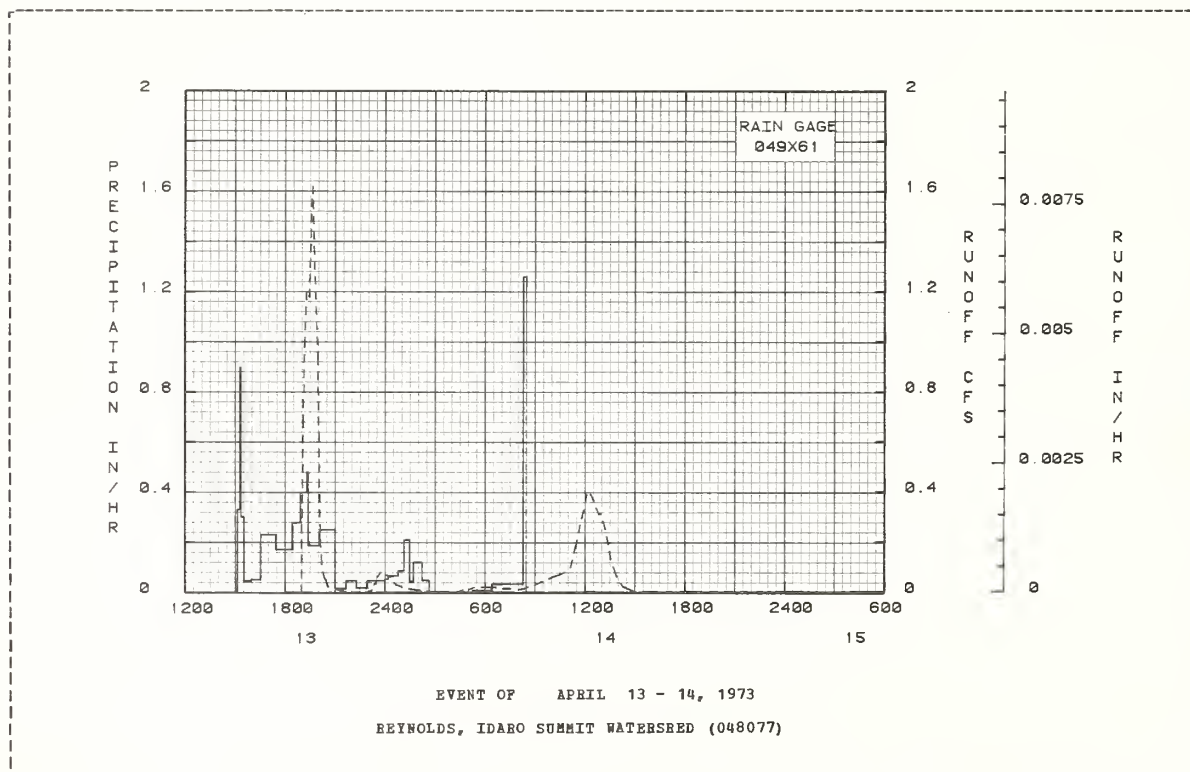
NOTES: To convert CFS to IN/DAY, multiply by 0.1161056. STA AV values are based on 7 yr (1967-73) record period.

1973 SELECTED RUNOFF EVENT REYNOLDS, IDAHO SUMMIT WATERSHED (048077)									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(inches)
EVENT OF APRIL 13 - 14, 1973									
RG 049X61									
4-13	0.0	0.0	4-13	1507	0.0	0.0	4-13	1858	0.0
				1516	0.3333	0.05		1900	0.274
				1520	0.9000	0.11		1904	0.684
				1530	0.3000	0.16		1908	0.985
				1557	0.0444	0.18		1916	1.202
WATERSHED CONDITIONS:									
The event is combined rain and snowmelt. The precipitation fell in the form of rain and snow.									
				1631	0.0529	0.21		1925	1.183
				1725	0.2333	0.42		1937	1.622
				1825	0.1700	0.59		1944	1.319
				1853	0.2786	0.72		1956	0.939
				1917	0.4000	0.88		2000	0.597
				1922	0.4800	0.92		2006	0.214
				2004	0.1857	1.05		2012	0.105
				2059	0.2509	1.28		2020	0.056
				2139	0.0150	1.29		2036	0.022
				2217	0.0474	1.32		2108	0.007
				2255	0.0158	1.33		2140	0.001
				2400	0.0462	1.38		2200	0.0
			4-14	11	0.0545	1.39		2256	0.0
				47	0.0667	1.43		2312	0.014
				108	0.0857	1.46		2320	0.030
				128	0.2100	1.53		2328	0.044
				142	0.0429	1.54		2330	0.058
				212	0.1200	1.60		2344	0.077
				238	0.0462	1.62		2400	0.073
				515	0.0	1.62	4-14	20	0.056
				623	0.0088	1.63		40	0.031
				817	0.0316	1.69		100	0.018
				827	1.2600	1.90		140	0.007
								300	0.0
								348	0.0

NOTES: To convert CFS to IN/HR, multiply by 0.00483773.

1973 SELECTED RUNOFF EVENT			REYNOLDS, IDARO SUMMIT WATERSHED (048077)						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)
Acc. (inches)									
EVENT OF APRIL 13 - 14, 1973 (CONTINUED)									
							4-14	420	0.004
								440	0.008
								500	0.014
								520	0.015
								612	0.017
								808	0.010
								900	0.032
								1000	0.059
								1048	0.077
								1108	0.100
								1125	0.181
								1148	0.299
								1205	0.387
								1220	0.387
								1248	0.307
								1256	0.307
								1312	0.252
								1332	0.127
								1352	0.056
								1416	0.025
								1500	0.005
								1620	0.0

NOTES: To convert CPS to IN/HR, multiply by 0.00483773.



REYNOLDS, IDARO REYNOLDS MOUNTAIN WATERSHED (166076)

LOCATION: Owyhee County, Idaho; 34 miles south of Nampa, north flowing tributary to the east fork of Reynolds Creek, Snake River Basin. Lat. 43 deg. 4 min. 16 sec. N.; Long. 116 deg. 45 min. 27 sec. W.

AREA: 100.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													REYNOLDS, IDARO REYNOLDS MOUNTAIN WATERSHED (166076)												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1973	P	3.87	2.53	2.47	4.84	1.65	1.01	1.02	0.67	1.83	1.86	10.12	8.31	40.18											
	Q	0.328	0.188	0.202	2.902	7.833	0.751	0.143	0.051	0.047	0.103	0.251	0.200	12.999											
STA AV	P	7.93	3.65	3.40	3.02	1.69	2.19	0.49	1.21	1.46	2.79	5.34	6.82	39.97											
	Q	0.408	0.333	0.687	2.533	10.329	4.220	0.431	0.084	0.063	0.129	0.247	0.201	19.665											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval								1 Day		2 Days		8 Days					
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		5-8	0.033	5-8	0.033	5-8	0.064	5-8	0.178	5-8	0.314	5-8	0.515	5-7	0.971	5-5	3.293								
MAXIMUMS FOR PERIOD OF RECORD																									
		6-6	0.062	5-7	0.055	5-7	0.109	5-7	0.308	5-7	0.540	5-7	0.893	5-6	1.741	5-4	6.698								
		1972		1971		1971		1971		1971		1971		1971		1971									

NOTES: Watershed conditions: Rangeland watershed with seasonal of grazing cattle and sheep. Scrub aspen, willow, scattered Douglas fir, and sagebrush with natural mountain meadows. Vegetative cover varies with annual precipitation type of cover is 32% shrub and brush, 17% grass and forbes, and 9% rock and rock fragments. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 68.13-4. Records started: Precipitation-1963; Runoff-1966. Precipitation: 'Computed Actual' amounts from one rain gauge. Station average precipitation values based on 1968-73 record period. Station average runoff values based on 1966-73 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

SNOW COURSE DATA: DATE OF MEASUREMENT/AVERAGE WATER CONTENT (INCHES)													
Course#	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	Date	Inches	
176007	010873	4.80	012273	5.80	020673	10.60	022073	12.76	030573	12.50	031973	14.10	
176007	040273	16.30	041673	15.80	043073	13.50	112673	7.00	121473	9.30	122973	15.20	

NOTES: For snow course location information, see Hydrologic Data for Experimental Agricultural Watersheds in the United States 1968, USDA Misc. Pub. 1330, p. 68.001-6.

1973 DAILY AIR TEMPERATURE (degrees F)													REYNOLDS, IDARO REYNOLDS MOUNTAIN WATERSHED (166076)												
Day	Jan		Feb		Mar		Apr		May		Jnn		Jul		Aug		Sep		Oct		Nov		Dec		
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	
1	26	12	31	9	32	20	28	17	41	25	52	35	60	33	80	64	47	29	49	32	27	12	35	21	
2	27	9	32	16	30	17	30	18	53	33	49	27	74	50	78	55	60	35	40	27	20	11	23	17	
3	15	6	33	21	29	19	36	22	47	29	49	39	78	61	68	54	67	40	44	25	21	11	26	20	
4	10	2	28	23	32	19	46	28	44	29	59	35	77	58	72	52	70	52	60	38	27	16	27	18	
5	12	6	29	24	30	18	43	33	44	29	70	49	76	54	73	54	78	55	56	45	36	27	31	20	
6	15	7	28	23	38	20	36	17	48	33	73	55	67	47	70	50	72	54	53	35	40	31	36	28	
7	15	17	26	17	40	21	28	14	49	32	66	51	73	46	72	49	52	35	35	26	37	31	37	30	
8	10	2	29	17	32	22	42	20	44	31	70	49	77	57	76	58	54	35	35	24	44	31	37	26	
9	22	2	33	21	32	22	42	35	52	32	66	43	87	61	76	61	61	42	36	24	49	40	43	26	
10	26	21	27	22	36	18	45	34	45	29	66	37	87	60	69	47	72	50	40	26	45	38	38	33	
11	31	26	24	19	22	18	49	32	51	31	64	44	72	54	71	53	72	55	40	30	48	42	43	20	
12	34	31	28	20	32	15	48	35	60	44	70	55	71	52	77	57	71	52	47	32	43	25	32	25	
13	37	33	33	19	21	15	38	26	63	46	61	46	64	50	77	60	74	53	63	43	30	25	33	24	
14	46	35	29	20	26	15	31	21	66	46	46	32	66	49	79	56	58	41	66	52	29	21	26	23	
15	43	36	33	18	35	18	39	20	70	52	47	29	75	56	81	61	53	37	64	50	33	28	40	24	
16	38	25	39	18	39	26	32	28	69	53	49	30	81	62	76	57	56	48	64	45	32	27	40	36	
17	27	21	35	17	31	14	32	22	70	54	35	26	78	59	73	50	68	46	67	46	31	23	38	24	
18	28	19	28	14	32	11	24	16	68	51	59	26	76	59	72	53	60	44	62	50	30	16	31	22	
19	19	11	36	15	31	25	24	16	63	49	61	38	70	49	78	57	58	38	62	47	16	13	27	17	
20	21	8	35	19	33	24	28	18	52	31	72	50	65	47	77	60	50	34	49	37	24	15	38	20	
21	23	16	24	18	28	24	36	22	53	27	74	56	60	46	75	58	50	33	52	37	20	17	35	28	
22	34	17	44	24	29	19	45	31	66	40	76	62	62	43	73	53	57	40	51	40	20	15	28	23	
23	38	19	42	23	32	19	38	32	67	49	58	47	63	50	66	46	40	33	43	27	21	15	23	19	
24	34	24	38	26	41	23	40	28	53	27	67	46	69	50	53	36	37	32	39	31	21	14	28	16	
25	27	16	36	27	45	28	45	30	41	27	73	53	72	55	54	39	42	33	35	23	22	14	29	12	
26	20	3	38	29	34	17	55	36	46	25	76	55	76	57	61	41	51	32	42	25	20	16	26	13	
27	20	3	35	28	26	17	50	34	55	33	76	60	78	61	61	47	58	43	46	32	31	18	26	12	
28	41	20	39	28	26	16	40	23	59	38	78	55	77	61	66	44	60	44	58	27	33	30	30	25	
29	33	22			27	16	34	22	63	42	73	52	78	63	73	51	63	46	35	23	37	32	31	18	
30	33	18			32	18	40	23	67	45	63	33	81	62	71	53	62	46	40	28	39	32	18	13	
31	21	11			28	18			56	41			82	62	53	33			43	28			20	10	
AV.	27	16	33	21	32	19	38	25	56	37	63	44	73	54	71	52	59	42	49	34	31	23	31	21	
MEAN	21.4	26.6	25.4	31.7	46.5	53.6	63.7	61.5	50.5	41.5	26.9	26.5													
STA AV	28	19	32	21	33	22	38	23	54	36	62	44	73	54	73	54	60	43	46	32	36	26	28	18	

NOTES: Temperature data are taken from hygrothermograph record at station 176114. STA AV based on 1966-73 record period.

1973	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.40
2	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0
3	0.0	0.02	0.0	0.0	0.05	0.0	0.0	0.32	0.0	0.0	0.06	0.03
4	0.0	0.77	0.0	0.0	0.14	0.0	0.0	0.16	0.0	0.0	0.01	0.0
5	0.0	0.47	0.0	0.0	0.20	0.0	0.0	0.01	0.0	0.0	0.56	0.0
6	0.03	0.09	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.06	0.13	0.02
7	0.0	0.06	0.04	0.0	0.0	0.0	0.0	0.0	0.12	0.50	1.11	0.07
8	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.22	0.0
9	0.09	0.11	0.02	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.08	0.0
10	0.03	0.49	0.46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0
11	0.70	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.39
12	0.87	0.26	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.41	0.17
13	0.0	0.17	0.42	1.32	0.0	0.02	0.04	0.0	0.0	0.0	0.60	0.21
14	0.0	0.0	0.0	0.47	0.0	0.45	0.19	0.0	0.0	0.0	0.45	0.17
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0
16	0.62	0.0	0.0	1.94	0.0	0.02	0.0	0.0	0.0	0.0	0.41	0.0
17	0.23	0.06	0.22	0.41	0.0	0.43	0.0	0.0	0.0	0.0	0.33	0.99
18	0.50	0.0	0.0	0.24	0.01	0.0	0.01	0.0	0.0	0.0	0.40	0.0
19	0.0	0.0	0.01	0.37	0.09	0.0	0.11	0.0	0.01	0.0	0.02	0.0
20	0.0	0.0	0.51	0.0	0.0	0.0	0.55	0.0	0.36	0.25	0.46	0.53
21	0.0	0.0	0.16	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.75	0.24
22	0.0	0.0	0.04	0.35	0.0	0.0	0.03	0.0	0.02	0.0	0.0	0.56
23	0.0	0.0	0.0	0.03	0.0	0.0	0.05	0.0	0.53	0.65	0.82	0.40
24	0.14	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.76	0.09	0.78	0.0
25	0.35	0.01	0.0	0.0	0.01	0.0	0.0	0.06	0.03	0.02	0.84	0.21
26	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.27	0.38
27	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.44	2.08
28	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.03	0.0	0.31
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	1.16
30	0.08	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0
31	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.23	0.0	0.0
TOTAL	3.87	2.53	2.47	4.84	1.65	1.01	1.02	0.67	1.83	1.86	10.12	8.31
STA AV	7.93	3.65	3.40	3.02	1.69	2.19	0.49	1.21	1.46	2.79	5.34	6.82

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) at Station 176X07. 'Actual' amounts were computed as per relationship developed by W. R. Hanson, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 6 yr (1968-73) record period.

1973	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.18
2	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0
3	0.0	0.01	0.0	0.0	0.03	0.0	0.0	0.32	0.0	0.0	0.05	0.03
4	0.0	0.45	0.0	0.0	0.10	0.0	0.0	0.16	0.0	0.0	0.01	0.0
5	0.0	0.31	0.0	0.0	0.14	0.0	0.0	0.01	0.0	0.0	0.43	0.0
6	0.03	0.05	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.05	0.10	0.02
7	0.0	0.03	0.03	0.0	0.0	0.0	0.0	0.0	0.12	0.45	0.99	0.07
8	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.22	0.0
9	0.05	0.06	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.07	0.0
10	0.02	0.26	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0
11	0.41	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.23
12	0.75	0.14	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.32	0.10
13	0.0	0.09	0.15	1.13	0.0	0.01	0.03	0.0	0.0	0.0	0.41	0.12
14	0.0	0.0	0.0	0.40	0.0	0.38	0.16	0.0	0.0	0.0	0.30	0.10
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0
16	0.30	0.0	0.0	0.56	0.0	0.01	0.0	0.0	0.0	0.0	0.30	0.0
17	0.11	0.06	0.08	0.26	0.0	0.40	0.0	0.0	0.0	0.0	0.25	0.57
18	0.24	0.0	0.0	0.13	0.01	0.0	0.01	0.0	0.0	0.0	0.31	0.0
19	0.0	0.0	0.01	0.20	0.09	0.0	0.11	0.0	0.01	0.0	0.01	0.0
20	0.0	0.0	0.38	0.0	0.0	0.0	0.55	0.0	0.28	0.18	0.33	0.31
21	0.0	0.0	0.12	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.47	0.13
22	0.0	0.0	0.02	0.03	0.0	0.0	0.03	0.0	0.01	0.0	0.0	0.32
23	0.0	0.0	0.0	0.02	0.0	0.0	0.05	0.0	0.41	0.45	0.30	0.23
24	0.08	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.66	0.09	0.24	0.0
25	0.20	0.01	0.0	0.0	0.01	0.0	0.0	0.06	0.02	0.01	0.52	0.11
26	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.20
27	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.95
28	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.03	0.0	0.15
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.74
30	0.05	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0
31	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.18	0.0	0.0
TOTAL	2.40	1.48	1.45	2.73	1.48	0.83	0.98	0.67	1.51	1.47	6.64	4.56
STA AV												

NOTES: Values are amounts from unshielded recording gage 176407. STA AV do not apply to unshielded rain gage records.

1973 DAILY PRECIPITATION (inches) REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.28
2	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0
3	0.0	0.02	0.0	0.0	0.03	0.0	0.0	0.32	0.0	0.0	0.06	0.03
4	0.0	0.61	0.0	0.0	0.12	0.0	0.0	0.16	0.0	0.0	0.01	0.0
5	0.0	0.39	0.0	0.0	0.17	0.0	0.0	0.01	0.0	0.0	0.51	0.0
6	0.03	0.07	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.06	0.11	0.02
7	0.0	0.04	0.04	0.0	0.0	0.0	0.0	0.0	0.12	0.48	1.05	0.07
8	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.23	0.0
9	0.07	0.09	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.07	0.0
10	0.03	0.36	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0
11	0.55	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.32
12	0.82	0.19	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.37	0.13
13	0.0	0.13	0.27	1.23	0.0	0.01	0.04	0.0	0.0	0.0	0.51	0.17
14	0.0	0.0	0.0	0.44	0.0	0.42	0.17	0.0	0.0	0.0	0.39	0.13
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.49	0.0
16	0.45	0.0	0.0	1.02	0.0	0.01	0.0	0.0	0.0	0.0	0.36	0.0
17	0.17	0.06	0.14	0.34	0.0	0.45	0.0	0.0	0.0	0.0	0.29	0.77
18	0.36	0.0	0.0	0.19	0.01	0.0	0.01	0.0	0.0	0.0	0.36	0.0
19	0.0	0.0	0.01	0.29	0.09	0.0	0.11	0.0	0.01	0.0	0.01	0.0
20	0.0	0.0	0.45	0.0	0.0	0.0	0.55	0.0	0.35	0.22	0.40	0.42
21	0.0	0.0	0.14	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.61	0.19
22	0.0	0.0	0.04	0.04	0.0	0.0	0.03	0.0	0.02	0.0	0.0	0.44
23	0.0	0.0	0.0	0.03	0.0	0.0	0.05	0.0	0.52	0.55	0.52	0.32
24	0.11	0.0	0.0	0.0	1.00	0.0	0.0	0.0	0.73	0.10	0.47	0.0
25	0.27	0.01	0.0	0.0	0.02	0.0	0.0	0.06	0.02	0.01	0.68	0.16
26	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.30
27	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	1.47
28	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.03	0.0	0.23
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.94
30	0.07	0.36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0
31	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.21	0.21	0.0	0.0
TOTAL	3.11	1.99	1.95	3.58	1.57	0.92	1.00	0.67	1.77	1.69	8.33	6.39
STA AV												

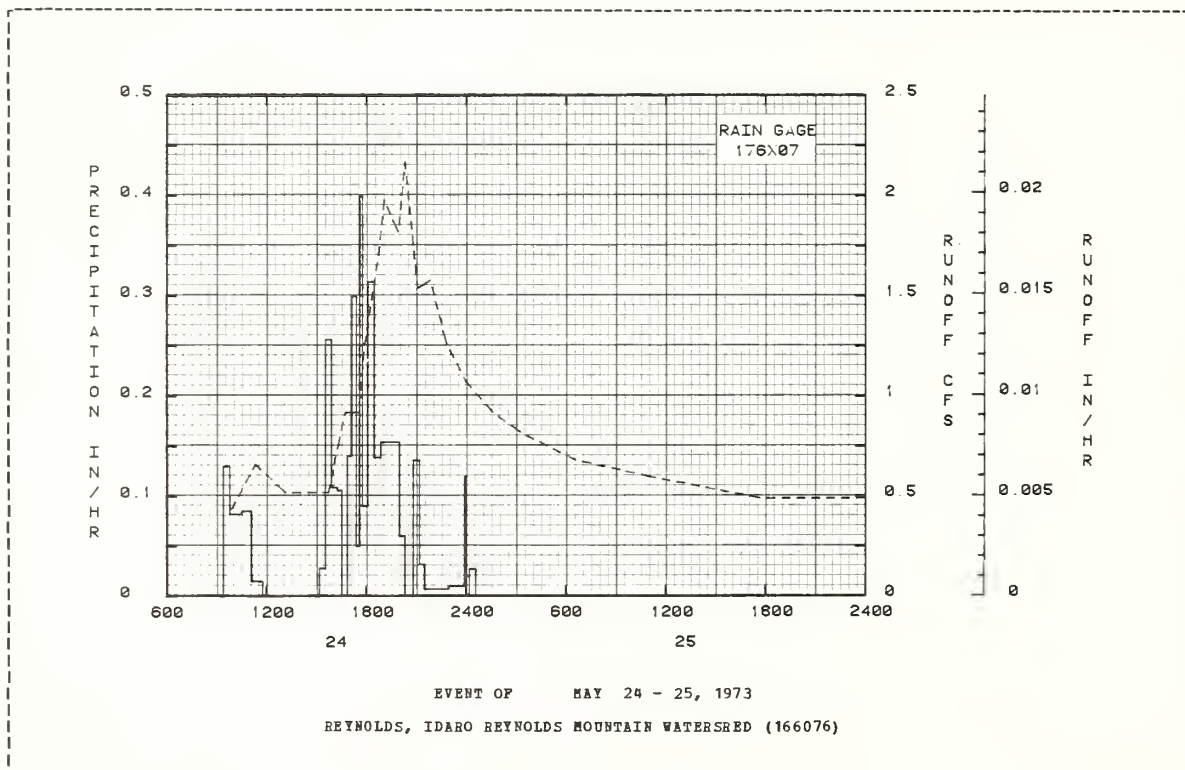
NOTES: Values are amounts from shielded recording gage 176507. STA AV do not apply to shielded rain gage records.

1973 MEAN DAILY DISCHARGE (cfs) REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.039	0.033	0.027	0.028	0.994	0.252	0.043	0.009	0.005	0.007	0.018	0.030
2	0.038	0.033	0.026	0.027	1.387	0.219	0.029	0.012	0.004	0.008	0.015	0.029
3	0.036	0.033	0.026	0.030	1.582	0.204	0.028	0.018	0.003	0.011	0.015	0.029
4	0.036	0.033	0.026	0.037	1.477	0.186	0.026	0.014	0.003	0.011	0.015	0.029
5	0.036	0.033	0.026	0.057	1.738	0.166	0.024	0.010	0.003	0.012	0.014	0.030
6	0.036	0.030	0.026	0.079	1.764	0.150	0.024	0.009	0.002	0.011	0.017	0.029
7	0.036	0.028	0.026	0.088	1.716	0.143	0.022	0.009	0.005	0.024	0.041	0.028
8	0.036	0.028	0.026	0.093	2.131	0.126	0.020	0.009	0.005	0.013	0.097	0.028
9	0.036	0.028	0.026	0.113	1.798	0.113	0.018	0.009	0.004	0.012	0.063	0.028
10	0.036	0.028	0.026	0.174	1.513	0.103	0.018	0.008	0.003	0.011	0.068	0.027
11	0.036	0.028	0.026	0.318	1.540	0.090	0.017	0.008	0.004	0.011	0.051	0.026
12	0.055	0.027	0.026	0.444	1.659	0.087	0.016	0.006	0.002	0.011	0.051	0.026
13	0.084	0.027	0.026	0.541	1.630	0.085	0.020	0.005	0.002	0.010	0.040	0.027
14	0.090	0.027	0.026	0.357	1.429	0.126	0.024	0.005	0.002	0.010	0.038	0.027
15	0.069	0.027	0.026	0.262	1.166	0.112	0.017	0.004	0.003	0.009	0.034	0.027
16	0.055	0.027	0.026	0.223	1.033	0.107	0.014	0.004	0.004	0.009	0.035	0.027
17	0.051	0.027	0.026	0.337	0.940	0.123	0.014	0.003	0.003	0.010	0.035	0.027
18	0.049	0.027	0.026	0.265	0.869	0.107	0.014	0.007	0.004	0.011	0.033	0.026
19	0.047	0.027	0.025	0.218	0.868	0.107	0.016	0.008	0.004	0.011	0.031	0.026
20	0.047	0.026	0.025	0.190	0.697	0.076	0.035	0.008	0.010	0.017	0.031	0.026
21	0.047	0.026	0.025	0.179	0.566	0.064	0.025	0.008	0.006	0.014	0.031	0.026
22	0.042	0.026	0.026	0.189	0.510	0.056	0.022	0.004	0.006	0.013	0.031	0.026
23	0.038	0.026	0.025	0.404	0.468	0.058	0.017	0.001	0.018	0.017	0.031	0.026
24	0.041	0.026	0.028	0.597	0.801	0.056	0.015	0.003	0.036	0.032	0.028	0.026
25	0.041	0.026	0.032	0.718	0.629	0.054	0.013	0.008	0.017	0.021	0.026	0.026
26	0.040	0.026	0.035	1.141	0.423	0.046	0.013	0.006	0.009	0.017	0.031	0.026
27	0.039	0.026	0.033	1.847	0.368	0.044	0.012	0.006	0.009	0.017	0.034	0.026
28	0.038	0.028	0.031	1.379	0.334	0.039	0.014	0.004	0.009	0.018	0.033	0.026
29	0.035	0.031	0.042	0.942	0.314	0.034	0.012	0.003	0.008	0.015	0.033	0.026
30	0.033	0.030	0.013	0.913	0.284	0.021	0.006	0.003	0.006	0.017	0.032	0.026
31	0.033	0.029	0.029	0.282	0.282	0.009	0.009	0.005	0.005	0.020	0.020	0.026
MEAN	0.0445	0.0282	0.0274	0.4064	1.0616	0.1051	0.0193	0.0070	0.0065	0.0140	0.0351	0.0272
INCHES	0.328	0.188	0.202	2.902	7.833	0.751	0.143	0.051	0.047	0.103	0.251	0.200
STA AV	0.408	0.333	0.687	2.533	10.329	4.220	0.431	0.084	0.063	0.129	0.247	0.201

NOTES: To convert CFS to IN/DAY, multiply by 0.238017. STA AV based on 8 yr (1966-73) record period.

1973	SELECTED RUNOFF EVENT			REYNOLDS, IDAHO REYNOLDS MOUNTAIN WATERSHED (166076)						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973										
5-24	RG 176X07 0.0	0.045	5-24	RG 176X07			5-24			
				925	0.0	0.0		955	0.444	0.0
				948	0.1304	0.05		1120	0.664	0.0078
				1032	0.0818	0.11		1310	0.520	0.0185
				1107	0.0857	0.16		1545	0.523	0.0319
				1147	0.0150	0.17		1620	0.764	0.0356
WATERSHED CONDITIONS: The event is combined snow-melt and rain.					1513	0.0	0.17	1645	0.922	0.0391
					1534	0.0286	0.18	1735	0.922	0.0467
					1555	0.2571	0.27	1755	1.257	0.0503
					1617	0.1091	0.31	1845	1.708	0.0626
					1634	0.1059	0.34	1905	1.981	0.0687
					1653	0.0	0.34	1955	1.824	0.0844
					1710	0.1412	0.38	2020	2.170	0.0926
					1726	0.3000	0.46	2105	1.536	0.1064
					1738	0.0500	0.47	2150	1.578	0.1180
					1747	0.4000	0.53	2250	1.257	0.1321
			1807	0.0900	0.56		2400	1.069	0.1455	
			1828	0.3143	0.67	5-25	135	0.922	0.1611	
			1854	0.1385	0.73		315	0.817	0.1755	
			2000	0.1545	0.90		635	0.684	0.2003	
			2020	0.0600	0.92		1055	0.596	0.2278	
			2050	0.0	0.92					
			2112	0.1364	0.97					
			2131	0.0316	0.98					
			2257	0.0070	0.99					
			2355	0.0103	1.00					
			2400	0.1200	1.01					
			5-25	13	0.0	1.01				
				35	0.0273	1.02				

NOTES: To convert CFS to IN/HR, multiply by 0.009917.



REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)

LOCATION: Owyhee County, Idaho; 40 miles south of Nampa, Idaho; a tributary to Reynolds Creek, a tributary to the Snake River. Lat. 43 deg. 8 min. 53 sec. N.; Long. 116 deg. 44 min. 14 sec. W.

AREA: 33.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	0.81	0.28	0.82	2.59	0.32	0.55	0.28	0.31	0.92	0.45	2.32	1.60	11.25			
	Q	0.000	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.014			
STA AV	P	2.47	0.93	1.46	1.29	0.83	1.72	0.27	0.82	1.09	1.36	1.75	2.09	16.08			
	Q	0.155	0.040	0.105	0.006	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.001	0.310			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
	Maximum Discharge	1 Hour				2 Hours				Maximum Volume for Selected Time Interval				2 Days		8 Days	
	Date Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1973		4-17	0.001	4-17	0.000	4-17	0.001	4-17	0.002	4-16	0.004	4-16	0.006	4-15	0.009	4-13	0.014
MAXIMUMS FOR PERIOD OF RECORD																	
		1-22	0.063	1-22	0.053	1-22	0.097	1-22	0.205	1-22	0.291	1-22	0.328	1-20	0.379	1-18	0.518
		1972		1972		1972		1972		1972		1972		1972		1972	

NOTES: Watershed conditions: Watershed is entirely sagebrush rangeland used almost exclusively for cattle grazing. Vegetation consists of bluebunch wheatgrass, Sandberg bluegrass, cheatgrass, yarrow, and little sagebrush. 90% of the area has a vegetative cover of 0-25% and 10% of the area has a vegetative cover of 26-50%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 68.014-6. Records began: Precipitation-1963; Runoff-1967. Precipitation: 'Computed Actual' amounts from one rain gage. Station average precipitation amounts are based on 1968-73 record period. Station average runoff amounts are based on 1967-73 record period. For long-time precipitation records, see National Weather Service records at Boise, Idaho, 50 miles N.E. of watershed.

1973 DAILY AIR TEMPERATURE (degrees F)													REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)											
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	33	16	32	19	44	30	35	22	48	28	59	36	61	35	83	60	55	34	52	37	37	19	45	27
2	33	13	31	18	39	25	38	21	58	38	51	32	81	50	76	59	61	38	46	31	26	15	33	25
3	20	7	34	20	38	26	44	24	54	38	55	33	81	58	79	57	69	49	50	29	28	17	36	28
4	17	5	38	31	36	26	50	30	48	32	62	39	84	58	79	57	75	55	60	39	35	25	32	22
5	23	14	37	31	38	25	55	40	52	33	75	47	76	57	80	62	82	57	63	47	44	33	36	24
6	19	9	37	31	42	31	44	21	52	36	79	60	74	52	76	50	79	59	65	43	49	36	43	34
7	15	9	33	27	39	32	35	17	53	35	72	55	74	39	78	50	58	40	42	33	45	35	45	35
8	15	7	32	24	42	30	48	24	54	34	79	51	80	61	79	60	62	41	45	31	54	38	38	28
9	17	9	37	24	42	31	48	36	56	36	69	49	85	61	82	62	66	45	45	30	60	50	36	27
10	33	15	36	27	47	24	49	37	48	32	59	40	93	66	76	56	72	53	47	30	55	47	39	27
11	39	24	34	27	31	22	52	34	54	30	69	46	78	59	77	57	77	58	50	35	55	50	45	28
12	42	37	34	27	37	21	51	38	66	42	74	60	76	57	83	58	77	56	57	41	52	34	37	29
13	45	40	34	26	34	22	46	29	68	48	64	52	70	52	84	64	76	53	71	52	40	31	38	28
14	55	39	36	27	37	23	35	27	70	50	52	37	75	53	80	60	63	45	74	57	37	29	31	27
15	52	39	33	27	41	26	40	24	74	52	54	34	80	60	88	64	57	41	72	53	44	34	45	51
16	44	40	39	25	51	38	40	32	74	56	58	41	86	68	83	57	61	39	67	51	41	35	47	41
17	36	32	44	24	42	23	35	23	75	56	46	30	85	62	73	51	70	45	69	53	36	30	44	29
18	35	24	35	19	41	21	34	21	72	54	53	30	82	61	74	52	70	52	71	54	36	23	36	26
19	25	16	38	23	41	26	32	20	70	54	66	42	75	54	84	61	65	43	68	52	25	19	32	21
20	27	13	35	22	41	32	38	22	58	38	78	53	70	51	83	66	58	41	59	44	31	19	43	24
21	29	19	34	25	39	29	46	26	54	30	81	60	65	51	76	63	54	39	63	45	27	24	43	31
22	34	19	33	38	39	27	50	35	74	46	84	58	68	47	78	55	62	45	59	41	30	25	34	29
23	35	23	44	23	45	27	48	33	68	52	65	52	70	50	73	51	50	38	49	33	28	19	30	24
24	41	22	41	29	50	32	48	26	58	44	70	50	75	52	60	42	46	34	47	37	29	21	38	21
25	35	21	45	35	51	36	51	32	44	29	80	58	79	58	59	43	49	36	42	30	30	21	34	29
26	25	15	42	35	42	28	59	38	52	29	81	57	81	60	65	45	54	34	45	30	27	22	31	19
27	27	15	44	35	35	24	59	45	58	34	82	61	83	64	69	52	60	43	52	37	41	27	35	31
28	34	18	48	31	39	24	43	24	62	40	86	68	83	64	68	47	67	49	65	32	45	40	34	26
29	34	21			36	25	42	25	67	45	76	57	84	66	77	52	70	52	41	30	47	37	36	23
30	33	29			37	26	47	26	71	49	69	44	88	66	78	56	69	51	49	37	47	37	22	17
31	29	22			36	22			61	45			85	62	51	40			52	35			24	14
AV.	32	20	37	27	40	27	45	28	60	41	68	48	78	57	76	55	64	46	56	40	39	30	37	27
MEAN	26.1		32.0		33.7		36.6		50.7		58.0		67.5		65.5		55.0		47.9		34.6		32.1	
STA AV	33	23	39	27	43	29	47	31	61	41	68	49	81	60	79	58	66	48	53	37	41	29	33	22

NOTES: Temperature data taken from hygrothermograph record at Station 127X07. STA AV based on 7 yr (1967-73) record period.

1973	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	
2	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.01	0.04	
4	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.02	0.0	
5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	
6	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	
7	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.17	0.46	0.02	
8	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.11	0.0	
9	0.03	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.04	0.04	0.38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	
11	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
12	0.24	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	
13	0.0	0.10	0.03	1.54	0.0	0.0	0.01	0.0	0.0	0.0	0.21	0.04	
14	0.0	0.0	0.0	0.45	0.0	0.42	0.02	0.0	0.0	0.0	0.03	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	
16	0.30	0.0	0.0	0.28	0.0	0.02	0.0	0.0	0.0	0.0	0.19	0.0	
17	0.0	0.0	0.03	0.15	0.0	0.11	0.0	0.0	0.0	0.0	0.17	0.30	
18	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	
19	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	
20	0.0	0.0	0.30	0.0	0.0	0.0	0.12	0.0	0.32	0.05	0.17	0.14	
21	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
22	0.0	0.0	0.0	0.05	0.0	0.0	0.13	0.0	0.0	0.0	0.04	0.08	
23	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.20	0.03	0.0	0.0	
24	0.0	0.03	0.0	0.0	0.23	0.0	0.0	0.0	0.33	0.0	0.05	0.10	
25	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.13	0.05	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.13	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.48	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.18	0.0	0.0	
TOTAL	0.81	0.28	0.82	2.59	0.32	0.55	0.28	0.31	0.92	0.45	2.32	1.60	
STA AV	2.47	0.93	1.46	1.29	0.83	1.72	0.27	0.82	1.09	1.36	1.75	2.09	

NOTES: Values are 'Actual' amounts from a pair of recording gages (shielded and unshielded) 127X07. 'Actual' amounts were computed as per relationship developed by W. R. Hamon, "Computing Actual Precipitation", Proceedings of WMO-IDHS Symposium, Geilo, Norway, August, 1972. The equation used is: $\log_e (U/A) = \log_e (U/S) \times 1.80$, where U = unshielded catchment, S = shielded catchment, and A = actual amount of precipitation. STA AV values are based on 6 yr (1968-73) record period.

1973	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	
2	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.01	0.04	
4	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.10	0.0	
6	0.02	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	
7	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.17	0.41	0.02	
8	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.10	0.0	
9	0.01	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.02	0.03	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
11	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
12	0.16	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.13	0.0	
13	0.0	0.09	0.02	1.28	0.0	0.0	0.01	0.0	0.0	0.0	0.19	0.03	
14	0.0	0.0	0.0	0.37	0.0	0.37	0.02	0.0	0.0	0.0	0.03	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	
16	0.27	0.0	0.0	0.19	0.0	0.02	0.0	0.0	0.0	0.0	0.08	0.0	
17	0.0	0.0	0.02	0.10	0.0	0.09	0.0	0.0	0.0	0.0	0.07	0.23	
18	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	
19	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	
20	0.0	0.0	0.23	0.0	0.0	0.0	0.11	0.0	0.28	0.05	0.07	0.09	
21	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	
22	0.0	0.0	0.0	0.05	0.0	0.0	0.12	0.0	0.0	0.0	0.02	0.05	
23	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.18	0.03	0.0	0.0	
24	0.0	0.03	0.0	0.0	0.21	0.0	0.0	0.0	0.30	0.0	0.03	0.06	
25	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.08	0.03	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.08	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.30	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.15	0.0	0.0	
TOTAL	0.61	0.25	0.52	2.07	0.30	0.48	0.26	0.29	0.83	0.42	1.63	1.08	
STA AV													

NOTES: Values are amounts from unshielded recording gage 127407. STA AV do not apply to unshielded rain gage records.

1973	DAILY PRECIPITATION (inches)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	
2	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.01	0.04	
4	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
5	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	
6	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	
7	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.17	0.44	0.02	
8	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.12	0.0	
9	0.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.03	0.04	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	
11	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	
12	0.21	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	
13	0.0	0.10	0.03	1.42	0.0	0.0	0.01	0.0	0.0	0.0	0.20	0.03	
14	0.0	0.0	0.0	0.41	0.0	0.40	0.02	0.0	0.0	0.0	0.04	0.0	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	
16	0.28	0.0	0.0	0.23	0.0	0.03	0.0	0.0	0.0	0.0	0.13	0.0	
17	0.0	0.0	0.02	0.13	0.0	0.10	0.0	0.0	0.0	0.0	0.11	0.26	
18	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	
19	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	
20	0.0	0.0	0.27	0.0	0.0	0.0	0.12	0.0	0.30	0.05	0.11	0.12	
21	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	
22	0.0	0.0	0.0	0.05	0.0	0.0	0.12	0.0	0.0	0.0	0.04	0.07	
23	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.19	0.03	0.0	0.0	
24	0.04	0.03	0.0	0.0	0.22	0.0	0.0	0.0	0.32	0.0	0.04	0.08	
25	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.10	0.05	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.04	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.07	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.11	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.39	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.17	0.0	0.0	
TOTAL	0.72	0.27	0.67	2.33	0.31	0.53	0.27	0.30	0.88	0.44	1.97	1.35	
STA AV													

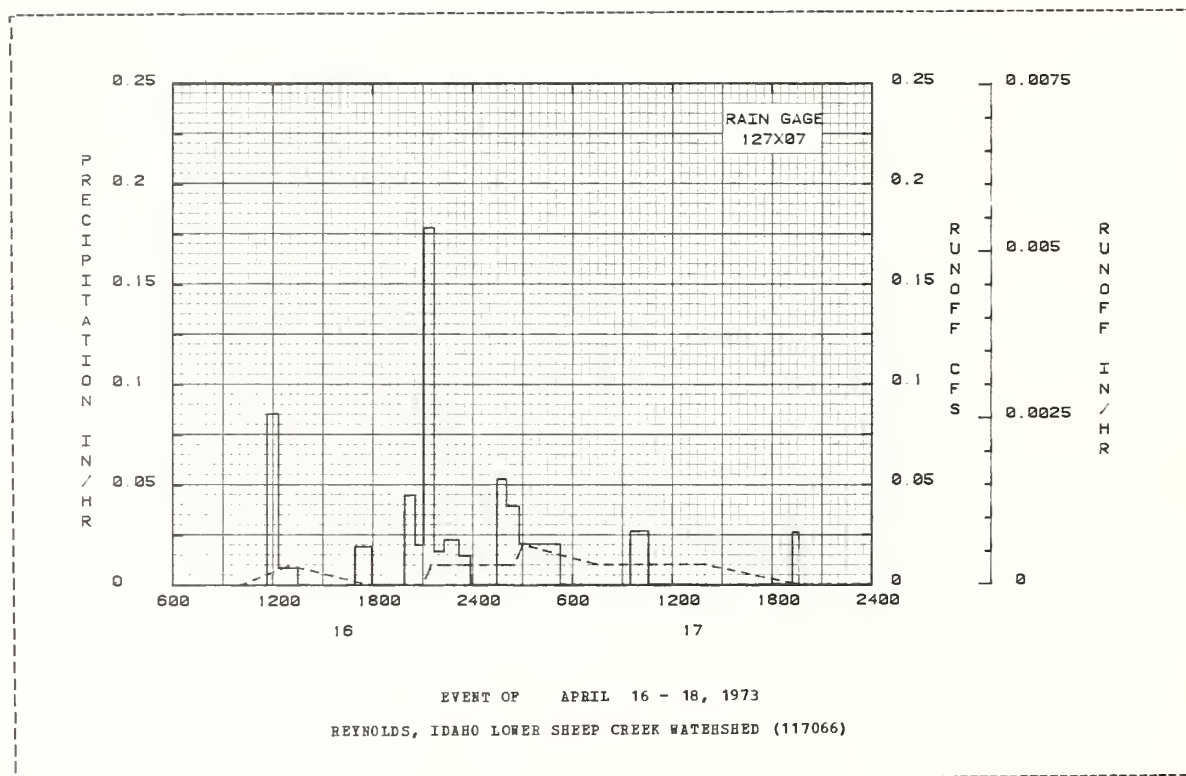
NOTES: Values are amounts from shielded recording gage 127507. STA AV do not apply to shielded rain gage records.

1973	MEAN DAILY DISCHARGE (cfs)					REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.0	T 0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0	0.0	0.0	0.0006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
INCHES	0.000	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
STA AV	0.155	0.040	0.105	0.006	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.001	

NOTES: To convert CFS to IN/DAY, multiply by 0.721262. STA AV based on 7 yr (1967-73) record period.

1973	SELECTED RUNOFF EVENT			REYNOLDS, IDAHO LOWER SHEEP CREEK WATERSHED (117066)							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Hainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Hate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF APRIL 16 - 18, 1973											
RG 127X07			RG 127X07								
4-16	0.0	0.002	4-16	1140	0.0	0.0	4-16	1000	0.003	0.0	
				1222	0.0857	0.06		1300	0.007	0.0004	
				1331	0.0087	0.07		1750	0.003	0.0012	
				1657	0.0	0.07		2100	0.005	0.0016	
				1759	0.0194	0.09		2130	0.006	0.0016	
WATERSHED CONDITIONS: The event is combined rain and snowmelt.				1955	0.0	0.09		2215	0.014	0.0019	
				2035	0.0450	0.12		2400	0.010	0.0025	
				2105	0.0200	0.13	4-17	145	0.010	0.0030	
				2142	0.1784	0.24		230	0.010	0.0033	
				2218	0.0167	0.25		300	0.015	0.0034	
				2311	0.0226	0.27		730	0.010	0.0051	
				2353	0.0143	0.28		1400	0.006	0.0067	
				4-17	129	0.0	0.28		1930	0.003	0.0074
					203	0.0529	0.31		2130	0.003	0.0076
					249	0.0391	0.34		2400	0.003	0.0078
					517	0.0203	0.39	4-18	800	0.001	0.0083
					929	0.0	0.39		1300	0.003	0.0086
					1036	0.0269	0.42		1830	0.001	0.0090
					1914	0.0	0.42				
					1937	0.0261	0.43				

NOTES: To convert CFS to IN/DAY, multiply by 0.030053.



CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO

LOCATION: Washita River above Anadarko, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Caddo, Kiowa, Washita, Custer, Beckham, and Roger Hills Counties, Okla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--NW1/4 sec. 15, T. 7 N., R. 10 W., lat. 35 deg. 05 min. N., long. 98 deg. 14 min. W.; North edge of Anadarko, Okla., 35 feet upstream from U.S. Highway 281 bridge over Washita River; at river mile 305.2, approximately 8.1 miles upstream from confluence of Sugar Creek.

AHEA: 2339800.00 acres 3656.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973 Q	0.098	0.031	0.193	0.449	0.094	0.171	0.060	0.030	0.245	0.139	0.047	0.045	1.602					
STA AV Q	0.045	0.037	0.056	0.085	0.125	0.129	0.051	0.037	0.107	0.083	0.080	0.047	0.880					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																		
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973	4-2	0.002	4-2	0.002	4-2	0.004	4-2	0.012	4-2	0.024	4-2	0.047	4-1	0.093	3-30	0.238		
MAXIMUMS FOR PERIOD OF RECORD																		
	9-23	0.004	9-23	0.004	9-23	0.009	9-23	0.026	9-23	0.052	9-23	0.100	9-23	0.188	9-23	0.384		
	1965		1965		1965		1965		1965		1965		1965		1965			

NOTES: Watershed conditions not applicable. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Since this is the inflow station to a study reach, precipitation data are not applicable. Runoff records began Oct. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	56.0	195.2	84.7	4398.3	410.9	732.5	153.6	134.8	96.7	598.6	160.1	136.0	
2	54.9	185.2	84.7	4637.5	384.1	1184.6	182.0	460.8	73.3	468.2	154.9	136.8	
3	67.5	163.9	84.7	3982.6	359.4	1725.9	168.8	246.5	61.8	381.0	153.7	146.8	
4	84.6	142.2	85.0	2409.8	333.8	2978.2	173.3	151.8	59.5	343.6	151.3	173.8	
5	83.1	124.8	87.8	1926.5	319.6	1889.5	159.8	133.5	80.2	509.6	150.9	213.2	
6	58.2	115.6	94.9	1478.5	312.9	1026.8	139.9	120.6	2013.7	1169.8	151.3	194.9	
7	50.8	122.2	106.9	1180.3	300.8	732.5	127.3	107.2	1817.1	951.4	153.7	170.9	
8	47.6	120.5	425.5	954.7	288.4	576.9	118.7	108.8	1690.5	490.7	154.1	152.6	
9	47.1	112.9	265.1	826.1	278.9	470.5	113.9	117.7	1940.0	342.9	154.1	145.1	
10	47.1	105.1	858.1	755.7	267.0	394.3	115.6	107.9	1310.2	292.4	153.7	142.1	
11	47.1	100.6	2069.2	680.7	255.3	355.4	122.5	96.5	887.9	387.6	151.3	142.1	
12	47.6	101.8	2992.0	622.4	245.8	323.7	146.9	82.8	693.0	778.2	150.6	144.0	
13	50.3	102.2	2117.6	571.9	231.7	298.2	134.3	72.2	884.3	1495.6	148.2	142.4	
14	50.8	101.8	856.5	556.9	219.8	283.7	135.2	68.6	1193.8	915.9	148.2	144.0	
15	52.2	99.9	602.8	854.7	210.1	270.1	196.3	64.6	1528.7	669.5	151.3	141.7	
16	62.4	99.3	484.3	1580.5	208.2	252.3	220.0	61.0	859.7	519.4	156.5	138.7	
17	73.6	97.4	389.2	3238.9	204.6	243.8	250.0	60.2	572.4	412.0	156.5	135.7	
18	113.2	96.7	329.0	3323.6	198.3	424.0	223.8	58.7	468.1	331.6	151.7	132.7	
19	220.6	94.8	286.0	1705.0	193.9	361.8	151.9	57.5	445.5	281.8	150.6	129.8	
20	162.7	94.5	259.4	1215.9	187.3	300.4	119.2	51.0	423.4	252.4	149.0	126.9	
21	132.1	94.2	237.6	1027.9	181.3	284.8	294.8	45.8	343.2	235.1	153.3	124.0	
22	790.0	92.0	211.5	834.7	207.8	284.4	606.8	43.6	293.0	220.3	153.7	121.5	
23	1950.5	89.6	204.2	708.9	382.8	243.8	404.3	42.1	255.0	208.3	152.1	124.1	
24	1892.4	87.4	223.9	620.3	391.4	204.4	232.4	41.6	220.5	195.2	158.1	142.2	
25	840.4	87.1	375.5	600.5	576.4	184.3	312.0	40.6	196.6	187.3	170.4	148.2	
26	570.4	87.1	236.4	1067.3	627.3	170.8	215.1	41.6	216.9	181.3	181.7	152.1	
27	534.5	86.8	194.3	820.4	435.1	161.3	140.3	41.4	758.8	179.6	179.2	145.1	
28	589.1	85.0	207.7	586.4	295.3	157.3	130.9	38.9	2024.7	173.6	166.3	139.4	
29	376.0		359.1	506.8	248.6	154.1	131.2	38.5	1821.9	167.8	149.1	138.3	
30	255.1		664.5	451.7	216.2	150.9	124.4	63.1	873.4	166.6	139.4	136.0	
31	212.6		3519.3		275.8		119.4	102.8		163.7		67.8	
MEAN	310.3	110.2	612.8	1470.8	298.3	560.7	189.2	93.6	803.5	441.0	155.2	142.9	
INCHES	0.098	0.031	0.193	0.449	0.094	0.171	0.060	0.030	0.245	0.139	0.047	0.045	
STA AV	0.045	0.037	0.056	0.085	0.125	0.129	0.051	0.037	0.107	0.083	0.080	0.047	

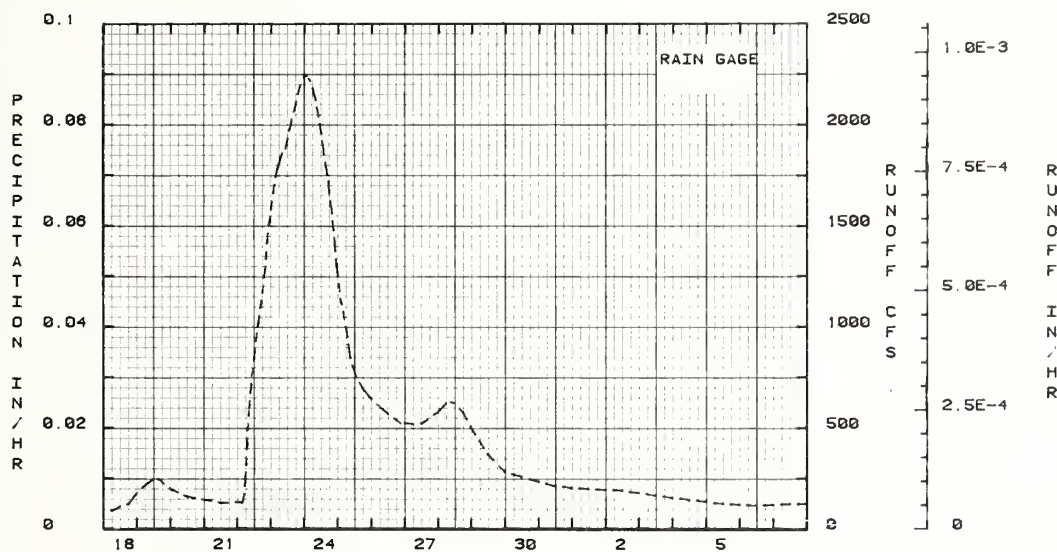
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. To convert discharge in CFS to IN/DAY, multiply by 0.00001017. To convert discharge in inches to AC-FT, multiply by 194,983. STA AV based on 13 yr (1961-73) record period.

1973			SELECTED RUNOFF EVENT				CHICKASHA, OKLAHOMA				WATERSHED 100 AT ANADARKO			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)				
EVENT OF JANUARY 18 - FEBRUARY 17, 1973														
1-18		0.000					1-18	600	89.670	0.0				
								1200	110.270	0.0003				
								1800	124.280	0.0005				
								2400	177.520	0.0009				
							1-19	600	216.470	0.0014				
								1200	247.030	0.0020				
								1500	246.400	0.0023				
								2400	194.110	0.0032				
							1-20	1200	157.270	0.0041				
								2400	142.070	0.0048				
							1-21	1200	126.870	0.0055				
								2400	132.700	0.0062				
							1-22	330	126.830	0.0063				
								400	131.270	0.0064				
								500	174.510	0.0064				
								600	280.229	0.0065				
								700	410.958	0.0067				
								830	598.069	0.0070				
								1000	720.428	0.0074				
								1200	855.618	0.0081				
								1500	1019.239	0.0093				
								1800	1169.108	0.0107				
								2000	1299.509	0.0117				
								2130	1425.638	0.0126				
								2230	1507.658	0.0132				
								2400	1586.868	0.0142				
							1-23	230	1703.918	0.0159				
								500	1804.820	0.0178				
								600	1807.128	0.0186				
								800	1862.068	0.0201				
								1030	1882.059	0.0221				
								1200	1935.628	0.0233				
								1500	2029.789	0.0258				
								1800	2115.388	0.0285				
								2100	2197.749	0.0312				
								2400	2241.038	0.0340				
							1-24	130	2243.999	0.0355				
								300	2226.168	0.0369				
								400	2215.240	0.0378				
								600	2181.279	0.0397				
								800	2120.468	0.0415				
								1000	2039.158	0.0433				
								1200	1954.168	0.0450				
								1400	1849.108	0.0466				
								1530	1791.448	0.0477				
								1730	1695.918	0.0492				
								1930	1559.628	0.0506				
								2100	1474.168	0.0515				
								2200	1408.668	0.0522				
								2300	1306.609	0.0527				
								2400	1247.850	0.0533				
							1-25	211	1120.628	0.0544				
								300	1109.009	0.0548				
								600	985.508	0.0561				
								900	842.638	0.0573				
								1300	754.519	0.0586				
								1800	689.408	0.0601				
								2400	639.108	0.0618				
							1-26	1200	566.580	0.0649				
								2100	520.638	0.0670				
								2400	521.009	0.0676				
							1-27	600	515.438	0.0689				
								1200	521.479	0.0703				
								2400	579.770	0.0731				
							1-28	600	622.108	0.0746				
								900	627.588	0.0754				
								1200	620.648	0.0762				
								1800	571.898	0.0777				
								2400	497.340	0.0791				
							1-29	1200	363.800	0.0812				
								2400	279.168	0.0829				
							1-30	1200	254.740	0.0842				
								2400	231.705	0.0855				
							1-31	1200	208.670	0.0866				
								2400	201.480	0.0876				

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000004239. No precipitation record is shown because all of the watershed lies outside of the area in which precipitation is measured.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Rnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JANUARY 18 - FEBRUARY 17, 1973 (CONTINUED)										
							2- 1	1200	194.290	0.0887
								2400	190.785	0.0896
							2- 2	1200	187.280	0.0906
								2400	175.500	0.0915
							2- 3	1200	163.720	0.0924
								2400	152.700	0.0932
							2- 4	1200	141.680	0.0939
								2400	132.840	0.0946
							2- 5	1200	124.000	0.0953
								2400	118.415	0.0959
							2- 6	1200	112.830	0.0965
								2400	118.415	0.0971
							2- 7	1200	124.000	0.0977
								2400	122.580	0.0983
							2- 8	1200	121.160	0.0989
								2400	116.995	0.0996
							2- 9	1200	112.830	0.1001
								2400	108.810	0.1007
							2-10	1200	104.790	0.1012
								2400	102.190	0.1018
							2-11	1200	99.590	0.1023
								2400	100.880	0.1028
							2-12	1200	102.170	0.1033
								2400	102.170	0.1038
							2-13	1200	102.170	0.1043
								2400	102.170	0.1049
							2-14	1200	102.170	0.1054
								2400	100.880	0.1059
							2-15	1200	99.590	0.1064
								2400	99.590	0.1069
							2-16	1200	99.590	0.1074
								2400	98.310	0.1079
							2-17	1200	97.030	0.1084
								2400	97.030	0.1089

NOTES: To convert rnoff in CFS to IN/HR, multiply by 0.0000004239. No precipitation record is shown because all of the watershed lies outside of the area in which precipitation is measured.



EVENT OF JANUARY 18 - FEBRUARY 17, 1973
CHICKASHA, OKLAHOMA WATERSHED 100 AT ANADARKO

CHICKASAW, OKLAHOMA WATERSHED 200 AT VERDEN

LOCATION: Washita River above Verden, Okla.; Southwest Central Okla. and Texas Panhandle; in Caddo, Canadian, Kiowa, Washita, Custer, Beckham, and Roger Mills Counties, Okla.; and Hemphill, Wheeler, and Gray Counties, Tex.; Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 7, T. 7 N., R. 8 W., lat. 35 deg. 05 min. N., long. 98 deg. 05 min. W.; North edge of Verden, Okla. at county road bridge over Washita River; at river mile 283.4, approximately 8.4 miles upstream from confluence with Iovine Creek.

AREA: 2612500.00 acres 4082.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 200 AT VERDEN													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	3.36	0.50	7.04	2.83	3.92	3.72	3.86	0.73	7.85	2.73	1.42	0.49	38.45					
	Q	0.087	0.032	0.177	0.424	0.096	0.171	0.059	0.028	0.222	0.130	0.047	0.045	1.520					
STA AV	P	0.78	0.88	1.72	2.64	3.72	3.37	1.95	2.55	4.60	2.08	1.66	1.00	26.96					
	Q	0.047	0.038	0.053	0.083	0.121	0.129	0.048	0.034	0.099	0.081	0.078	0.049	0.860					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		4- 3	0.002	4- 3	0.002	4- 3	0.003	4- 3	0.010	4- 3	0.019	4- 2	0.039	4- 1	0.077	3-30	0.212		
MAXIMUMS FOR PERIOD OF RECORD																			
		5- 6	0.002	5- 7	0.002	9-24	0.005	9-24	0.019	9-24	0.038	9-24	0.075	9-24	0.141	9-21	0.344		
		1969		1969		1965		1965		1965		1965		1965		1965			

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1971 survey; Sowed crop - 26%; row crop - 4%; alfalfa - 9%; pasture and range - 48%; and miscellaneous - 13%. For map of watershed see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation data obtained from a Thiessen weighted average of 66 rain gages for the reach between Stations at Anadarko and Verden. Precipitation records began Oct. 1961; Runoff records began Sept. 1961. Max. for Period of Records for the 6 hrs, 12 hrs, 1 day and 2 days has been revised due to reevaluation of data. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)						CHICKASAW, OKLAHOMA WATERSHED 200 AT VERDEN							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.01	0.16	0.0	0.0	0.51	0.0	0.0	0.19	0.0	0.0	0.0	0.0
2	0.51	0.0	0.0	0.35	0.0	1.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.61	0.0	0.40	0.10	0.0	0.0	0.0	0.0	1.00	0.49	0.0	0.0	0.48
4	0.0	0.0	0.0	0.0	0.0	0.01	0.13	0.0	0.48	0.53	0.0	0.0	0.0
5	0.0	0.0	0.22	0.0	0.0	0.0	0.01	0.0	0.18	0.07	0.0	0.0	0.0
6	0.24	0.0	0.70	0.0	0.36	0.0	0.0	0.0	1.38	0.01	0.03	0.0	0.0
7	0.16	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.02	0.0	0.0
8	0.0	0.0	0.35	0.43	0.0	0.0	0.01	0.0	0.82	0.0	0.01	0.0	0.0
9	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	1.44	0.0	0.0	0.0	0.87	0.01	0.0	0.35	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0
12	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.50	0.37	0.0	0.0	0.0
13	0.0	0.0	0.14	0.27	0.0	0.03	0.14	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.01	0.0	0.07	0.45	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.99	0.0	0.02	0.0	0.40	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0
18	0.0	0.03	0.0	0.0	0.0	1.02	0.01	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.31	0.0	0.26	0.0	0.0	0.0	0.0	0.25	0.01	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.05	0.0	0.0
21	1.00	0.0	0.0	0.0	0.27	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.17	0.0	0.07	1.25	0.0	0.71	0.0	0.01	0.0	0.0	0.0	0.0
23	0.0	0.0	1.14	0.0	0.09	0.0	0.24	0.0	0.0	0.0	0.06	0.0	0.0
24	0.0	0.0	0.97	0.24	0.02	0.0	0.0	0.0	0.0	0.0	0.94	0.0	0.0
25	0.41	0.02	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0
26	0.09	0.0	0.0	0.0	0.06	0.0	0.0	0.0	2.11	0.01	0.0	0.0	0.0
27	0.01	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.04	0.11	0.06	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.42	0.09	0.07	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.0	1.09	0.0	0.52	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.33	0.0	0.0	1.35	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
TOTAL	3.36	0.50	7.04	2.83	3.92	3.72	3.86	0.73	7.85	2.73	1.42	0.49	
STA AV	0.78	0.88	1.72	2.64	3.72	3.37	1.95	2.55	4.60	2.08	1.66	1.00	

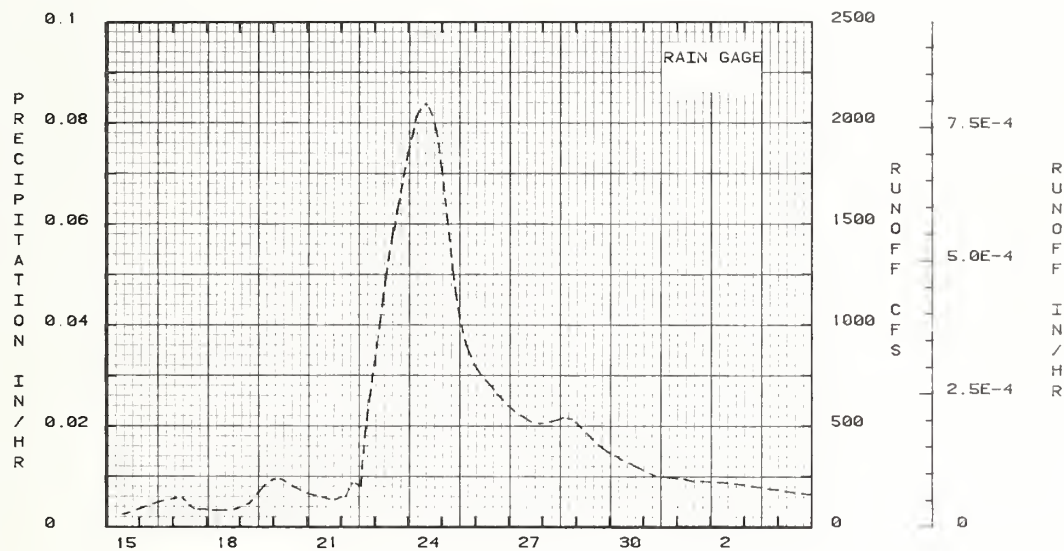
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values Thiessen weighted average of 66 rain gages on the watershed. STA AV based on 13 yr (1961-73) record period.

1973			SELECTED RUNOFF EVENT				CHICKASHA, OKLAHOMA				WATERSHED 200 AT VERDEN			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.				
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)				
EVENT OF JANUARY 15 - FEBRUARY 14, 1973 (CONTINUED)														
							1-21	2400	148.400	0.0080				
							1-22	336	150.400	0.0082				
								600	190.800	0.0084				
								730	213.700	0.0085				
								830	215.400	0.0086				
								1100	216.300	0.0088				
								1330	201.700	0.0090				
								1430	205.900	0.0090				
								1500	251.600	0.0091				
								1541	329.398	0.0092				
								1641	404.799	0.0093				
								1800	492.898	0.0095				
								1930	581.000	0.0098				
								2130	682.398	0.0103				
								2300	763.000	0.0107				
								2400	812.198	0.0110				
							1-23	200	908.100	0.0117				
								400	1017.698	0.0124				
								600	1121.599	0.0132				
								800	1229.800	0.0141				
								900	1282.300	0.0146				
								1100	1368.799	0.0156				
								1330	1478.500	0.0169				
								1400	1469.599	0.0172				
								1500	1513.100	0.0178				
								1630	1569.799	0.0187				
								1800	1624.999	0.0196				
								2100	1744.298	0.0215				
								2400	1850.098	0.0236				
							1-24	300	1938.198	0.0257				
								600	2035.898	0.0280				
								900	2071.300	0.0303				
								1200	2093.098	0.0327				
								1330	2090.198	0.0339				
								1500	2076.798	0.0351				
								1730	2037.698	0.0370				
								2000	1971.800	0.0389				
								2200	1890.499	0.0404				
								2400	1779.799	0.0418				
							1-25	200	1662.599	0.0431				
								400	1533.499	0.0443				
								600	1411.698	0.0454				
								800	1281.799	0.0464				
								900	1222.499	0.0469				
								1100	1119.398	0.0478				
								1300	1036.299	0.0486				
								1530	960.299	0.0496				
								1800	893.398	0.0505				
								2100	841.698	0.0514				
								2400	797.299	0.0524				
							1-26	400	755.599	0.0536				
								900	713.898	0.0549				
								1330	679.198	0.0561				
								1600	656.398	0.0568				
								2000	627.300	0.0577				
								2400	596.300	0.0587				
							1-27	400	570.698	0.0596				
								900	549.398	0.0606				
								1600	517.898	0.0620				
								2200	510.100	0.0632				
								2400	512.898	0.0636				
							1-28	600	521.500	0.0648				
								1500	540.500	0.0666				
								1800	537.600	0.0672				
								2100	532.698	0.0678				
								2400	516.898	0.0684				
							1-29	400	487.300	0.0692				
								1200	430.600	0.0706				
								1800	393.600	0.0715				
								2400	363.398	0.0724				
								400	352.100	0.0729				
							1-30	900	328.100	0.0735				
								1500	310.000	0.0743				
								2400	278.198	0.0753				
							1-31	600	259.198	0.0759				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000003796. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.

1973	SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 200 AT VERDEN									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF						
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.			
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)			
EVENT OF JANUARY 15 - FEBRUARY 14, 1973 (CONTINUED)													
							1-31	900	247.800	0.0762			
								1800	242.900	0.0770			
								2400	239.500	0.0776			
			2-	1				600	234.500	0.0781			
								1200	223.100	0.0786			
								2400	221.600	0.0796			
			2-	2				1200	216.700	0.0806			
								2400	204.850	0.0816			
			2-	3				1200	193.000	0.0825			
								2400	180.050	0.0834			
			2-	4				1200	167.100	0.0841			
								2400	158.350	0.0849			
			2-	5				1200	149.600	0.0856			
								2400	141.150	0.0862			
			2-	6				1200	132.700	0.0869			
								2400	132.000	0.0875			
			2-	7				1200	131.300	0.0881			
								2400	136.200	0.0887			
			2-	8				1200	141.100	0.0893			
								2400	138.250	0.0899			
			2-	9				1200	135.400	0.0906			
								2400	133.350	0.0912			
			2-10					1200	131.300	0.0918			
								2400	127.200	0.0924			
			2-11					1200	123.100	0.0929			
								2400	121.750	0.0935			
			2-12					1200	120.400	0.0940			
								2400	119.750	0.0946			
			2-13					1200	119.100	0.0951			
								2400	117.100	0.0957			
			2-14					1200	115.100	0.0962			
								2400	113.750	0.0967			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0000003796. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



EVENT OF JANUARY 15 - FEBRUARY 14, 1973
CHICKASHA, OKLAHOMA WATERSHED 200 AT VERDEN

CHICKASAW, OKLAHOMA WATERSHED 500 NEAR CHICKASAW

LOCATION: Washita River Watershed above Chickasha, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Custer, Beckham, and Roger Mills Counties, Okla.; and Remphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--SE1/4 sec. 23, T. 7 N., R. 7 W., lat. 35 deg. 05 min. N.; long. 97 deg. 54 min. W.; 1 mile Northeast of Chickasha, Okla., at R. E. Bailey Turnpike bridge over Washita River at river mile 256.5, approximately 1.3 miles downstream from confluence of Line Creek.

AREA: 2768000.00 acres 4325.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CRICKASRA, OKLAHOMA WATERSHED 500 NEAR CRICKASRA											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	3.07	0.51	5.47	2.48	4.49	4.60	3.41	1.42	7.08	3.24	1.74	0.28	37.79			
	Q	0.086	0.034	0.185	0.415	0.106	0.215	0.057	0.028	0.217	0.143	0.050	0.047	1.583			
STA AV	P	0.85	1.01	1.64	2.81	3.72	3.23	1.84	2.69	3.93	2.27	1.92	0.91	26.82			
	Q	0.040	0.032	0.052	0.092	0.130	0.103	0.042	0.032	0.086	0.075	0.064	0.043	0.793			
ANNUAL MAXIMUM DISCRARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time		1 Day		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1973		6- 2	0.002	6- 2	0.002	6- 2	0.004	6- 2	0.011	6- 2	0.021	6- 2	0.038	4- 2	0.074	3-31	0.199
MAXIMUMS FOR PERIOD OF RECORD																	
		4-12	0.003	5-29	0.002	4-12	0.005	4-12	0.015	5- 7	0.029	5- 6	0.055	5- 6	0.102	5- 5	0.329
		1967		1970		1967		1967		1969		1969		1969		1969	

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1971 survey; sowed crop - 36%; row crop - 2%; alfalfa - 7%; pasture and range - 44%; and miscellaneous - 11%. For map of watershed see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21, (Composite). The station at Chickasha (4th St.) Watershed 400 was discontinued in 1967, therefore, causing a new Thiessen weighted average for this watershed. Precipitation data obtained from a Thiessen weighted average of 42 gages for the reach between Verden (200) and Chickasha (500). Precipitation records began Oct. 1961; runoff records began Jan. 1964. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973		DAILY PRECIPITATION (inches)					CHICKASAW, OKLAHOMA				WATERSHED 500 NEAR CHICKASAW			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.21	0.0	0.0	0.48	0.0	0.0	0.25	0.0	0.0	0.0		
2	0.44	0.0	0.0	0.30	0.0	1.88	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.72	0.0	0.16	0.08	0.0	0.0	0.0	0.0	0.20	0.41	0.0	0.28		
4	0.0	0.0	0.0	0.0	0.0	0.30	0.07	0.0	0.30	0.43	0.0	0.0		
5	0.0	0.0	0.05	0.0	0.0	0.16	0.15	0.0	0.34	0.16	0.0	0.0		
6	0.25	0.0	0.77	0.0	0.50	0.0	0.0	0.0	1.45	0.04	0.03	0.0		
7	0.17	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.06	0.01	0.0		
8	0.0	0.0	0.21	0.38	0.0	0.0	0.0	0.0	0.54	0.0	0.03	0.0		
9	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.82	0.0	0.0	0.0	0.0		
10	0.0	0.0	1.10	0.0	0.0	0.0	0.77	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.14	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.87	0.68	0.0	0.0		
13	0.0	0.0	0.05	0.20	0.0	0.05	0.40	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.03	0.05	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.69	0.0	0.0	0.03	0.50	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0		
18	0.0	0.02	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.45	0.0	0.56	0.0	0.0	0.0	0.0	0.38	0.0		
20	0.0	0.0	0.0	0.0	0.01	0.0	0.44	0.0	0.0	0.0	0.03	0.0		
21	0.68	0.0	0.0	0.0	0.09	0.0	0.25	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.14	0.0	0.26	1.37	0.0	0.50	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	1.66	0.0	0.14	0.0	0.15	0.0	0.0	0.0	0.03	0.0		
24	0.0	0.0	0.70	0.12	0.41	0.0	0.0	0.0	0.01	0.0	1.12	0.0		
25	0.43	0.06	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0		
26	0.22	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.97	0.16	0.0	0.0		
27	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.27	0.16	0.11	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.30	0.20	0.04	0.0	0.0	0.0	0.0		
29	0.0	0.02	0.0	0.0	0.0	0.14	0.0	0.05	0.0	0.0	0.0	0.0		
30	0.0	0.33	0.0	0.47	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0		
31	0.16	0.0	0.0	1.49	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0		
TOTAL	3.07	0.51	5.47	2.48	4.49	4.60	3.41	1.42	7.08	3.24	1.74	0.28		
STA AV	0.85	1.01	1.64	2.81	3.72	3.23	1.84	2.69	3.93	2.27	1.92	0.91		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values Thiessen weighted average of 42 rain gages on the watershed. STA AV based on 12 yr (1961-72) record period.

1973	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA					WATERSHED 500 NEAR CHICKASHA		
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	68.4	266.8	108.1	3293.5	534.8	802.9	179.2	140.4	69.2	863.1	181.7	182.1	
2	68.4	247.6	111.3	4074.8	482.7	4017.0	173.6	137.7	97.4	622.3	177.2	177.6	
3	167.8	228.9	108.8	4318.7	443.4	2740.4	182.7	334.8	83.9	492.5	174.1	178.8	
4	178.5	203.9	112.0	3981.4	414.5	2519.6	183.9	304.5	141.6	467.4	174.5	211.9	
5	103.2	180.2	118.0	2541.8	380.3	3201.7	174.7	178.4	298.5	501.6	184.0	237.2	
6	72.9	160.4	231.6	1922.3	414.4	1799.8	168.2	147.2	272.6	648.5	177.7	250.9	
7	68.6	146.8	306.0	1503.1	460.6	1130.5	161.6	128.5	1850.7	1148.1	174.3	239.5	
8	68.6	146.1	183.6	1222.0	362.9	850.6	149.2	117.1	1645.9	885.8	174.1	213.8	
9	68.3	146.6	328.4	1004.5	339.3	670.8	138.1	171.4	1623.5	541.4	175.0	193.4	
10	66.8	142.2	1177.5	848.6	320.2	554.5	144.3	153.8	1678.7	414.7	174.1	178.3	
11	66.4	137.6	1559.7	763.0	313.1	472.4	162.7	124.8	1138.6	776.7	174.1	172.9	
12	65.6	130.7	1867.1	706.5	300.1	436.4	181.2	109.6	800.6	826.6	175.0	171.6	
13	65.8	126.5	2587.4	665.1	284.2	390.0	174.3	98.8	1059.9	1362.4	173.9	173.6	
14	67.4	123.8	1859.7	631.7	265.8	361.8	192.1	85.5	1002.8	1374.1	172.3	173.4	
15	69.7	121.1	879.4	670.1	247.0	342.3	161.0	76.7	1239.6	875.0	169.8	169.8	
16	81.4	117.8	634.3	1622.0	234.2	318.9	243.9	88.3	1350.0	689.6	168.8	166.8	
17	154.1	116.7	504.5	2064.5	228.2	301.4	230.6	80.9	839.8	546.7	171.4	164.3	
18	141.4	118.3	418.3	3139.2	222.1	297.9	239.1	73.0	730.4	469.3	176.1	162.8	
19	112.3	117.2	369.6	3086.8	215.5	591.4	255.6	72.4	549.7	382.8	177.5	155.6	
20	193.9	114.3	324.8	1708.8	206.6	607.4	170.8	71.3	511.3	290.7	183.5	158.1	
21	256.1	113.3	329.1	1233.8	196.8	393.9	147.4	67.2	495.0	283.3	174.3	172.1	
22	332.4	110.7	268.7	1019.6	193.6	347.8	242.1	61.2	429.8	258.7	177.0	162.1	
23	740.1	111.2	248.5	915.3	433.0	328.5	588.4	57.8	390.9	240.1	181.0	160.8	
24	1700.2	111.0	1556.1	805.9	812.0	303.1	485.0	51.3	350.7	225.9	242.7	160.5	
25	1667.6	109.4	1487.1	720.4	586.1	248.0	279.8	50.6	317.6	215.9	352.6	164.9	
26	912.5	109.4	658.1	711.7	608.5	223.5	287.6	48.5	408.2	207.0	263.8	173.8	
27	646.5	106.0	424.7	1022.0	654.8	204.9	264.5	47.6	1143.3	230.5	242.3	174.1	
28	550.8	106.5	362.0	791.6	495.8	195.1	177.9	48.0	1085.8	186.7	230.0	173.6	
29	567.0		401.3	641.6	350.0	190.9	145.7	45.9	1971.2	189.3	214.8	170.9	
30	418.8		467.1	581.0	293.9	190.8	159.4	40.1	1614.5	185.4	194.4	166.8	
31	318.1		1557.1		1030.3		150.2	38.0		181.9		81.8	
MEAN	324.5	141.8	695.1	1607.0	397.6	834.4	212.7	104.9	839.7	534.9	192.7	177.2	
INCHES	0.086	0.034	0.185	0.415	0.106	0.215	0.057	0.028	0.217	0.143	0.050	0.047	
STA AV	0.040	0.032	0.052	0.092	0.130	0.103	0.042	0.032	0.086	0.075	0.064	0.043	

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.000008599. To convert discharge in inches to AC-FT, multiply by 230,667. STA AV based on 9 yr (1964-72) record period.

CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX

LOCATION: Washita River Watershed above Alex, Okla.; Southwest Central Oklahoma and Texas Panhandle; in Grady, Caddo, Canadian, Kiowa, Washita, Custer, Beckham and Roger Mills Counties, Okla.; and Remphill, Wheeler, and Gray Counties, Tex.; Washita River, Red River Basin. GAGING STATION--NW1/4 sec. 7, T. 5 N., R. 5 W., lat. 34 deg. 55 min. N., long. 97 deg. 46 min. W., 1 mile north of Alex, Okla.; at county road bridge over Washita River at river mile 226.5 approximately 3.8 miles downstream from confluence of Winter Creek.

AREA: 3061120.00 acres 4783.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	3.36	0.57	5.46	2.92	4.75	5.83	5.86	1.35	7.62	3.13	2.76	0.19	43.80					
	Q	0.094	0.045	0.217	0.410	0.150	0.315	0.100	0.041	0.223	0.161	0.091	0.062	1.908					
STA AV	P	1.32	1.26	1.83	2.80	4.31	2.50	2.35	2.75	4.33	2.62	1.91	0.95	28.94					
	Q	0.050	0.042	0.061	0.097	0.134	0.151	0.050	0.036	0.095	0.085	0.085	0.052	0.938					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 2	0.003	6- 2	0.003	6- 2	0.006	6- 2	0.017	6- 2	0.033	6- 2	0.062	6- 2	0.096	5-31	0.220		
MAXIMUMS FOR PERIOD OF RECORD																			
		5- 7	0.003	5- 7	0.003	5- 7	0.006	9-20	0.019	9-20	0.035	5- 7	0.064	5- 6	0.114	5- 5	0.336		
		1969		1969		1969		1962		1962		1969		1969		1969			

NOTES: Watershed conditions: For area not included above subwatersheds as determined from a revised 1971 survey; sowed crop - 14%; row crop - 5%; alfalfa - 9%; pasture and range - 65%; and miscellaneous - 7%. For map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Precipitation records began Oct. 1961; runoff records began Sept. 1961. STA AV (P) values are a Thiessen weighted average of 21 gages for 1963-69 and for 77 gages for 1970-73 on the reach from Tabler to Alex., Okla., for a total period of record (1963-72). For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY AIR TEMPERATURE (degrees F)														CRICKASHA, OKLAHOMA				WATERSPEED 700 NEAR ALEX						
Day	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct		Nov		Dec	
	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min
1	44	25	46	39	64	50	64	40	83	48	79	64	92	75	84	63	80	70	78	50	80	48	66	38
2	39	32	52	33	59	45	57	41	64	39	71	62	92	74	83	61	90	70	86	64	53	40	66	46
3	44	30	59	28	59	44	52	43	74	38	79	68	94	72	85	59	92	71	85	61	58	38	64	38
4	27	23	68	38	53	38	56	36	77	42	87	67	98	73	85	58	87	68	62	54	51	42	40	32
5	25	22	63	34	63	36	62	32	73	52	87	57	90	72	85	62	71	64	70	52	46	40	53	29
6	24	20	48	32	68	48	63	41	79	59	82	57	92	70	90	65	73	62	74	62	47	41	42	23
7	21	16	40	26	67	38	57	44	74	50	86	57	93	71	92	63	80	69	83	62	52	46	50	20
8	16	9	28	22	62	48	44	32	83	48	87	58	92	68	92	72	82	68	83	69	52	45	55	39
9	12	5	39	19	55	47	44	30	86	60	85	61	93	69	90	66	90	67	81	70	50	38	48	28
10	20	10	44	20	58	44	53	28	92	63	84	66	87	70	90	71	85	66	83	70	53	42	48	20
11	20	7	50	30	71	42	66	34	81	61	87	65	88	67	92	69	84	62	72	51	57	48	60	32
12	30	3	67	44	71	45	76	46	74	56	80	65	88	67	92	70	85	65	63	51	70	51	70	25
13	42	15	48	37	72	53	70	49	71	46	77	68	88	67	94	71	76	63	74	56	77	60	54	33
14	50	17	42	28	68	47	73	52	73	48	89	70	87	69	94	70	73	57	78	49	76	60	49	32
15	53	24	37	23	53	40	65	50	76	42	90	73	81	66	93	66	78	53	68	52	67	36	50	28
16	54	29	40	20	56	35	58	44	86	49	92	63	87	64	86	66	67	58	70	47	66	30	38	22
17	65	53	37	28	64	30	70	44	79	41	87	66	91	66	90	70	58	50	73	42	68	44	55	24
18	58	41	45	33	72	44	71	47	90	62	90	66	93	73	88	66	63	50	77	49	72	46	65	33
19	63	33	42	30	70	43	73	57	97	55	74	62	94	74	91	69	84	56	80	47	75	51	33	18
20	60	45	57	28	52	35	79	58	83	63	85	55	97	77	93	67	86	65	80	47	56	33	37	15
21	50	36	51	35	59	31	80	64	95	66	88	59	86	67	94	66	86	71	79	49	66	30	51	23
22	43	34	42	29	62	46	70	59	81	64	89	64	90	65	96	67	85	68	81	54	72	46	59	21
23	46	30	54	31	61	54	77	50	79	58	89	63	89	69	98	70	84	65	80	50	77	50	62	40
24	59	27	57	34	59	37	73	56	86	61	88	65	92	74	98	70	83	70	78	55	55	42	44	30
25	43	34	58	30	48	45	63	54	75	59	88	68	87	68	94	71	86	72	76	44	54	45	50	24
26	47	38	49	32	58	42	57	45	92	61	92	67	90	68	92	68	77	65	76	55	64	42	43	24
27	43	28	60	29	59	40	68	40	73	54	95	70	91	65	90	67	66	56	62	43	58	37	49	19
28	32	22	56	37	63	43	71	45	78	57	82	66	83	70	90	66	72	50	60	37	58	29	60	38
29	40	19			62	43	78	59	79	56	85	69	79	71	87	68	69	51	65	32	68	34	41	26
30	58	26			63	46	71	66	78	59	91	72	86	70	88	69	72	52	66	48	64	39	44	22
31	57	44			52	43			79	59			84	67	90	72			71	42			23	13
AV.	41	26	49	30	61	43	65	46	80	54	86	64	89	70	91	67	79	62	75	52	62	42	51	28
MEAN	33.6		39.8		52.1		55.8		67.2		75.0		79.6		78.8		70.7		63.4		52.3		39.1	
STA AV	46	25	52	28	60	38	72	49	80	57	88	67	94	71	91	68	83	61	73	49	63	37	52	30

NOTES: Data recorded at South Central Agricultural Research Station. AV and STA AV are rounded to the nearest degree. Mean rounded to the tenth of a degree. STA AV based on records from Sept. 1962 through Dec. 1973. For Chickasha Experiment Station Evaporation Data, see National Weather Service Climatological Data for Oklahoma.

1973	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA				WATERSHED 700 NEAR ALEX			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.43	0.0	0.0	0.68	0.0	0.0	0.34	0.0	0.0	0.0	
2	0.48	0.0	0.0	0.44	0.0	2.05	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.70	0.0	0.15	0.05	0.0	0.0	0.0	0.0	0.25	0.47	0.0	0.19	
4	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.22	0.26	0.0	0.0	
5	0.0	0.0	0.03	0.0	0.01	0.22	0.0	0.0	0.61	0.18	0.0	0.0	
6	0.33	0.0	0.83	0.0	0.59	0.0	0.0	0.0	2.02	0.07	0.03	0.0	
7	0.20	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.02	0.02	0.0	
8	0.0	0.0	0.13	0.34	0.0	0.0	0.0	0.0	0.35	0.0	0.02	0.0	
9	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.82	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.95	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.99	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.93	0.57	0.0	0.0	
13	0.0	0.0	0.15	0.21	0.0	0.15	0.75	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.02	0.0	0.14	0.03	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.44	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	
18	0.0	0.03	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.49	0.0	0.24	0.0	0.0	0.02	0.0	1.19	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.03	0.0	
21	0.75	0.0	0.0	0.0	0.14	0.0	0.71	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.11	0.0	0.47	1.35	0.0	1.90	0.0	0.03	0.0	0.0	0.0	
23	0.0	0.0	1.62	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.07	0.0	
24	0.0	0.0	0.66	0.20	1.00	0.0	0.0	0.0	0.02	0.0	1.30	0.0	
25	0.55	0.12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
26	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.83	0.18	0.0	0.0	
27	0.01	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.28	0.39	0.10	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.21	0.51	0.0	0.0	0.0	0.0	0.0	
29	0.0		0.06	0.0	0.0	0.12	0.0	0.08	0.0	0.0	0.0	0.0	
30	0.0		0.27	0.0	0.19	0.0	0.72	0.0	0.0	0.0	0.0	0.0	
31	0.15		0.0		1.38		0.0	0.01		0.0		0.0	
TOTAL	3.36	0.57	5.46	2.92	4.75	5.83	5.86	1.35	7.62	3.13	2.76	0.19	
STA AV	1.32	1.26	1.83	2.80	4.31	2.50	2.35	2.75	4.33	2.62	1.91	0.95	

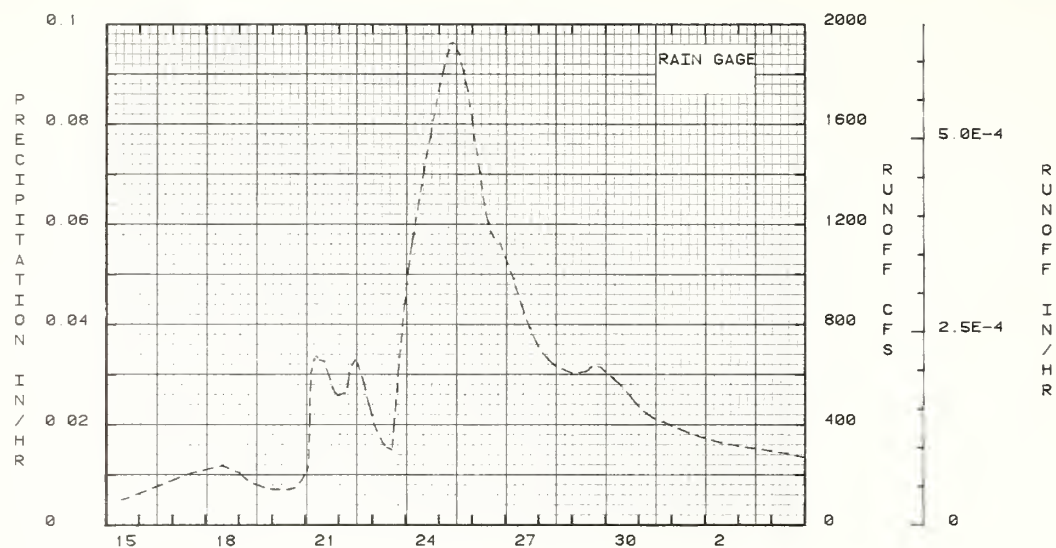
NOTES: STA AV (P) values are a Thiessen weighted average of 21 gages for 1963-69 and for 77 gages for 1970-73.
STA AV based on 11 yr for total period of record (1963-73).

1973	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA			WATERSHED 700 NEAR ALEX			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	100.1	368.4	156.3	2799.9	633.6	1975.8	277.9	274.2	65.3	1065.2	280.3	314.4
2	97.4	328.0	188.3	3679.0	572.4	5847.2	258.8	235.9	111.7	792.9	267.4	294.5
3	241.5	303.8	181.5	4125.3	523.3	6393.4	247.9	242.5	128.5	668.7	260.3	287.6
4	364.6	281.4	169.8	4221.4	490.6	2741.7	256.4	421.0	348.4	684.6	256.5	300.6
5	210.8	253.7	167.3	3047.7	459.6	5382.4	248.6	298.9	334.9	689.2	257.5	319.6
6	140.2	234.8	605.1	2215.9	531.7	2893.2	249.6	229.1	486.4	640.9	265.3	320.1
7	114.7	219.8	610.9	1726.7	681.9	1628.5	237.5	205.2	1435.4	992.6	258.8	331.4
8	102.6	210.1	387.7	1396.7	509.5	1187.3	218.7	185.4	1974.8	1049.0	254.6	314.4
9	96.3	211.0	309.5	1183.2	446.4	955.6	207.1	413.4	1711.8	732.8	253.4	291.4
10	95.5	208.1	1089.7	1044.3	413.0	803.7	204.0	322.9	1810.1	576.5	248.6	271.5
11	95.5	203.3	2000.4	953.3	385.8	671.4	216.6	217.7	1461.9	836.1	246.1	260.9
12	95.5	200.1	1859.3	893.1	363.1	599.3	216.3	182.7	969.1	1077.1	243.9	256.3
13	95.5	192.3	2494.2	837.1	348.1	542.9	211.8	162.3	1743.0	1387.9	240.6	254.1
14	96.3	185.1	2463.8	801.5	334.8	527.9	337.9	147.4	1207.7	1510.6	237.9	252.1
15	107.7	178.3	1168.7	816.0	323.4	475.6	236.5	140.1	1155.2	1104.3	232.6	249.6
16	153.7	171.9	772.2	1679.1	312.4	440.7	229.3	157.9	1376.3	822.7	228.1	244.7
17	203.8	169.2	637.4	1852.6	302.1	467.0	262.6	140.7	1057.8	689.3	231.2	242.7
18	227.3	173.6	535.8	2866.0	295.2	520.7	253.6	125.2	915.0	606.2	237.4	243.2
19	166.8	180.0	457.8	3575.0	288.9	1398.3	267.2	116.5	686.1	547.9	330.8	236.7
20	152.2	176.4	405.3	2435.9	282.6	1102.2	253.6	112.7	599.3	465.1	1294.9	221.9
21	558.6	170.2	376.3	1607.9	275.6	669.7	525.8	107.5	559.3	394.6	476.3	223.6
22	566.4	166.9	358.8	1405.5	265.5	541.6	373.5	101.5	491.4	378.9	377.9	239.3
23	451.5	166.7	350.5	1277.1	845.1	467.3	2642.0	92.3	422.6	356.1	335.8	239.8
24	1355.8	167.2	2260.2	1022.4	1159.2	430.3	1187.0	86.3	374.2	339.6	786.4	234.7
25	1827.7	162.4	2889.5	910.7	3008.8	375.5	683.1	80.0	333.6	327.8	1200.6	232.1
26	1265.5	161.2	1255.3	806.3	964.0	330.2	474.2	77.6	401.3	317.6	663.4	238.2
27	881.5	158.1	823.4	1034.1	867.2	303.8	445.4	73.3	1707.0	398.1	522.4	243.5
28	643.9	154.5	638.5	1033.5	712.5	294.7	367.7	69.6	1133.7	362.7	445.4	243.5
29	618.2	606.9	788.8	522.5	522.5	296.5	463.9	71.0	1748.7	293.1	391.4	238.6
30	547.6	600.4	693.7	416.0	293.4	385.3	385.3	71.6	1890.9	285.2	348.9	233.8
31	426.8	1144.0			1739.3		384.8	63.6		281.3		113.7
MEAN	390.4	205.6	902.1	1757.6	621.7	1351.9	413.7	168.6	954.7	666.9	389.2	257.7
INCHES	0.094	0.045	0.217	0.410	0.150	0.315	0.100	0.041	0.223	0.161	0.091	0.062
STA AV	0.050	0.042	0.061	0.097	0.134	0.151	0.050	0.036	0.095	0.085	0.085	0.052

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.000007776. To convert discharge in inches to AC-FT, multiply by 255,093. STA AV based on 13 yr (1961-73) record period.

1973			SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 700 NEAR ALEX		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JANUARY 15 - FEBRUARY 14, 1973 (CONTINUED)											
							1-26	500	1430.800	0.0470	
								900	1276.698	0.0487	
								1200	1201.398	0.0499	
								1400	1165.698	0.0507	
								1600	1145.798	0.0514	
								2000	1125.799	0.0529	
								2400	1067.599	0.0543	
							1-27	600	979.598	0.0563	
								1200	874.698	0.0581	
								1800	782.498	0.0597	
								2400	710.600	0.0612	
							1-28	600	665.500	0.0625	
								1200	633.398	0.0638	
								2400	604.800	0.0662	
							1-29	1000	611.300	0.0681	
								1430	631.898	0.0691	
								2030	630.800	0.0703	
								2400	609.600	0.0710	
							1-30	600	583.698	0.0721	
								1200	552.300	0.0732	
								1800	513.698	0.0743	
								2400	471.499	0.0752	
							1-31	600	443.600	0.0761	
								1200	421.300	0.0770	
								1800	409.100	0.0778	
								2400	394.698	0.0786	
							2- 1	1200	366.500	0.0800	
								2400	346.050	0.0814	
							2- 2	1200	325.600	0.0827	
								2400	314.648	0.0840	
								2400	303.698	0.0852	
							2- 3	1200	293.148	0.0863	
								1200	282.600	0.0875	
							2- 4	2400	267.350	0.0885	
								1200	252.100	0.0895	
								2400	243.300	0.0905	
							2- 6	1200	234.500	0.0914	
								2400	226.900	0.0923	
							2- 7	1200	219.300	0.0932	
								2400	213.800	0.0940	
								2400	208.300	0.0949	
							2- 8	1200	210.100	0.0957	
								2400	211.900	0.0965	
							2- 9	2400	210.100	0.0973	
							2-10	1200	208.300	0.0981	
								2400	205.550	0.0989	
							2-11	1200	202.800	0.0997	
								2400	201.900	0.1005	
							2-12	1200	201.000	0.1013	
								2400	196.550	0.1021	
								2400	192.100	0.1028	
							2-13	1200	188.600	0.1036	
								2400	185.100	0.1043	
							2-14	1200	181.700	0.1050	
								2400	181.700	0.1050	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0000003240. No precipitation record is shown because most of the watershed lies outside of the area in which precipitation is measured.



EVENT OF JANUARY 15 - FEBRUARY 14, 1973
CHICKASHA, OKLAHOMA WATERSHED 700 NEAR ALEX

CHICKASHA, OKLAHOMA WATERSHED 611 NEAR ALEX

LOCATION: Big Dry Creek Watershed above State Road 19 bridge in Grady County, Okla.; tributary to Washita River; Hed River Basin. Lat. 35 deg. 57 min. N.; Long. 97 deg. 51 min. W.

AHEA: 4845.00 acres 7.57 sq. miles

MONTHLY PRECIPITATION AND HUNOFF (inches)						CHICKASHA, OKLAHOMA				WATERSHED 611 NEAR ALEX									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	3.77	0.58	4.82	3.21	3.68	6.45	3.97	1.95	7.41	2.99	4.30	0.14	43.27					
	Q	0.551	0.280	0.737	0.740	0.514	1.798	0.294	0.157	0.432	0.388	1.402	0.453	7.746					
STA AV	P	1.16	1.17	1.70	2.50	3.79	2.89	1.95	2.55	4.55	2.64	2.15	1.04	28.09					
	Q	0.115	0.103	0.149	0.187	0.267	0.311	0.077	0.046	0.240	0.197	0.263	0.120	2.075					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		11-19	0.129	11-19	0.117	11-19	0.188	11-19	0.275	11-19	0.313	6- 1	0.368	6- 1	0.556	11-19	1.086		
MAXIMUMS FOR PERIOD OF RECORD																			
		5- 9	0.501	5- 9	0.423	5- 9	0.557	5- 9	0.649	10-30	0.673	10-30	0.881	10-30	1.158	10-30	1.605		
		1964		1964		1964		1964		1972		1972		1972		1972			

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 3%; alfalfa - 2%; pasture and range - 95%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, pp. 69.8-5 (Topography), 69.7-9 (Geologic) and 1965, p. 69.7-21 (Composite). Precipitation data obtained from Thiessen weighted average of 7 gages. Precipitation records began Oct. 1961; runoff records began Dec. 1961. For long-time precipitation records, see National Weather Service at Chickasha, Okla.

1973	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 611 NEAR ALEX							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.33	0.0	0.0	1.03	0.0	0.0	0.41	0.0	0.0	0.0	
2	0.45	0.0	0.0	0.55	0.0	2.05	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.73	0.0	0.28	0.04	0.0	0.0	0.0	0.0	0.03	0.66	0.0	0.14	
4	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.09	0.15	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.75	0.18	0.0	0.0	
6	0.37	0.0	0.65	0.0	0.61	0.0	0.0	0.0	2.32	0.08	0.03	0.0	
7	0.25	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.02	0.0	
8	0.0	0.0	0.02	0.32	0.0	0.0	0.0	0.0	0.24	0.0	0.01	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.86	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.07	0.01	0.0	0.0	0.73	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.66	0.0	0.0	
13	0.0	0.0	0.16	0.26	0.0	0.05	0.32	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.08	0.01	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.86	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	
18	0.0	0.02	0.0	0.0	0.0	1.47	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.69	0.0	0.07	0.0	0.0	0.03	0.0	2.44	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.04	0.0	
21	1.08	0.0	0.0	0.0	0.06	0.0	1.06	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.08	0.0	0.56	1.27	0.0	0.85	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	1.69	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.16	0.0	
24	0.0	0.0	0.33	0.22	0.18	0.0	0.0	0.0	0.06	0.0	1.53	0.0	
25	0.57	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.80	0.18	0.0	0.0	
27	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.36	0.35	0.07	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.49	0.22	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.15	0.0	0.0	0.15	0.0	0.30	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.25	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	
31	0.14	0.0	0.0	1.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.77	0.58	4.82	3.21	3.68	6.45	3.97	1.95	7.41	2.99	4.30	0.14	
STA AV	1.16	1.17	1.70	2.50	3.79	2.89	1.95	2.55	4.55	2.64	2.15	1.04	

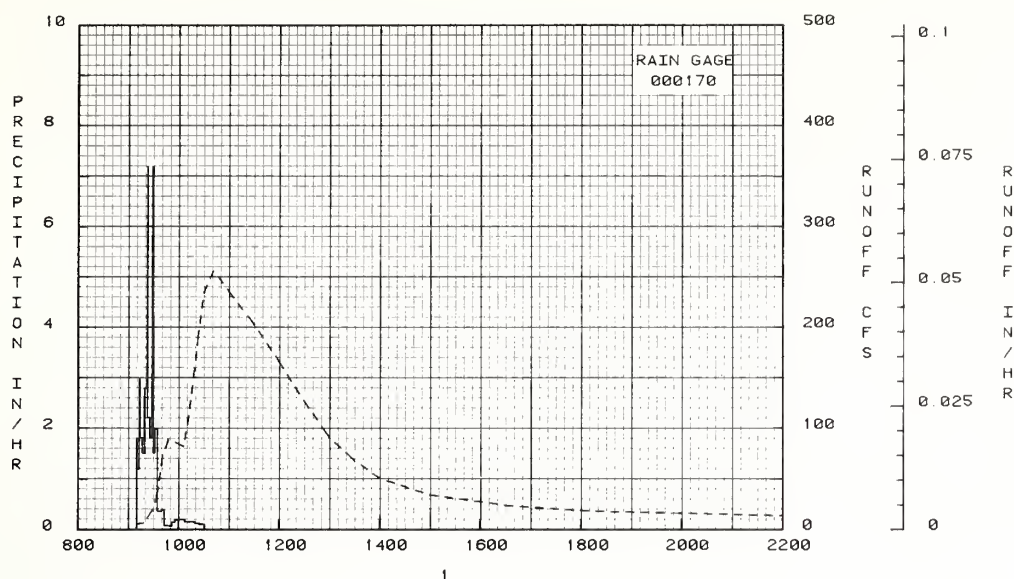
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Daily precipitation values Thiessen weighted average of 7 rain gages on the watershed. STA AV based on 13 yr (1961-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED 611 NEAR ALEX												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.050	2.916	1.829	3.969	3.224	37.008	3.522	1.715	0.567	2.185	1.502	6.425
2	1.212	2.566	2.001	4.017	2.866	68.402	2.976	1.505	0.792	1.912	1.490	5.520
3	10.232	2.400	2.030	10.216	2.792	24.437	2.550	1.399	0.821	1.821	1.490	5.051
4	3.491	2.302	2.000	5.500	2.705	25.070	2.287	1.302	0.754	9.435	1.479	4.630
5	2.355	2.352	1.945	4.539	2.792	19.349	2.150	1.219	0.655	3.451	1.422	4.096
6	1.765	2.196	4.737	4.115	5.323	13.880	2.030	1.131	8.125	2.699	1.491	3.624
7	1.100	2.240	2.602	3.962	3.386	11.804	1.899	1.050	12.435	2.185	1.577	3.440
8	0.744	2.165	2.287	4.005	2.954	10.182	1.712	0.980	5.335	1.914	1.577	3.380
9	0.700	2.135	2.135	3.604	2.705	8.985	1.617	3.690	3.719	1.700	1.502	3.140
10	0.700	2.045	12.120	3.300	2.652	8.085	1.686	1.040	2.855	1.494	1.490	3.100
11	0.685	2.030	5.855	3.240	2.531	7.117	1.700	0.971	2.419	4.216	1.490	3.100
12	0.595	2.030	4.347	3.160	2.416	6.357	1.674	0.900	2.354	7.155	1.502	3.064
13	0.580	2.015	3.451	3.380	2.400	5.710	1.529	0.830	2.853	4.789	1.565	2.846
14	0.595	1.911	2.835	3.380	2.400	5.229	1.577	0.754	1.815	3.360	1.491	2.792
15	1.247	1.801	2.435	8.868	2.400	4.585	1.590	0.974	1.699	2.694	1.411	2.670
16	3.609	1.712	2.286	5.822	2.384	5.390	1.566	2.974	1.617	2.290	1.400	2.565
17	3.232	1.726	2.255	4.187	2.286	4.290	1.424	0.830	1.660	2.045	1.387	2.652
18	2.461	1.870	2.150	3.750	2.255	27.302	1.377	0.821	1.505	1.911	1.292	2.620
19	2.076	1.787	2.030	12.851	2.150	15.309	1.221	0.769	1.399	1.801	51.974	2.305
20	2.030	1.630	1.925	5.477	2.045	11.010	1.071	0.752	1.302	1.699	26.993	2.180
21	21.477	1.634	1.925	4.337	2.000	8.002	4.095	0.707	1.219	1.591	17.652	2.271
22	7.135	2.615	1.985	11.067	2.889	6.011	1.405	0.692	1.141	1.502	13.776	2.384
23	5.491	2.061	13.792	6.239	11.943	4.910	3.878	0.640	1.130	1.490	11.499	2.384
24	4.176	1.816	21.297	5.210	3.401	4.327	1.715	0.581	1.120	1.490	51.238	2.271
25	4.059	1.725	12.046	4.356	2.974	4.071	1.425	0.530	1.040	1.490	23.631	2.165
26	9.334	1.775	8.189	3.944	2.671	3.751	1.291	0.486	9.237	1.604	17.860	2.150
27	5.709	1.725	7.034	3.750	2.402	3.381	1.172	0.480	7.405	2.211	14.415	2.150
28	4.225	1.787	5.751	3.581	2.181	4.520	1.341	0.500	4.824	1.862	12.059	2.135
29	3.624		5.004	3.440	2.150	3.750	1.712	0.620	3.505	1.712	9.854	2.045
30	3.400		5.125	3.400	2.150	3.729	2.776	0.626	2.699	1.686	7.901	2.015
31	3.121		4.634		15.220		1.786	0.544		1.591		0.970
MEAN	3.620	2.035	4.840	5.022	3.376	12.198	1.928	1.033	2.933	2.548	9.514	2.972
INCHES	0.551	0.280	0.737	0.740	0.514	1.798	0.294	0.157	0.432	0.388	1.402	0.453
STA AV	0.115	0.103	0.149	0.187	0.267	0.311	0.077	0.046	0.240	0.197	0.263	0.120

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.004913. To convert discharge in inches to AC/PT, multiply by 403.75. STA AV based on 13 yr (1961-1973) record period.

1973	SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA				WATERSHED 611 NEAR ALEX			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 1, 1973											
BG 000170			BG 000170								
6- 1	0.0	0.011	6- 1	910	0.0	0.0	6- 1	911	5.680	0.0	
				911	1.8000	0.03		918	6.120	0.0001	
				913	1.2000	0.07		923	12.070	0.0003	
				914	3.0000	0.12		930	20.110	0.0007	
				917	1.8000	0.21		936	41.160	0.0013	
WATERSHED CONDITIONS:				919	1.5000	0.26		941	73.740	0.0023	
From a revised 1971 survey;				922	2.8000	0.40		948	89.810	0.0042	
sowed crop - 3%; alfalfa -				923	7.2000	0.52		1006	82.070	0.0095	
2%; pasture and range - 95%.				926	2.2000	0.63		1011	105.300	0.0111	
				928	1.8000	0.69		1018	153.010	0.0142	
				929	7.2000	0.81		1023	189.700	0.0171	
				930	4.2000	0.88		1030	235.220	0.0222	
				932	1.5000	0.93		1041	255.940	0.0314	
				935	2.0000	1.03		1100	235.220	0.0473	
				940	0.3600	1.06		1130	202.370	0.0697	
				943	0.4000	1.08		1200	165.800	0.0886	
				952	0.0667	1.09		1230	126.430	0.1035	
				956	0.1500	1.10		1300	90.950	0.1146	
				1008	0.2000	1.14		1330	67.830	0.1228	
				1016	0.1500	1.16		1400	50.230	0.1288	
				1020	0.1500	1.17		1500	33.770	0.1374	
				1025	0.1200	1.18		1630	23.510	0.1462	
				1031	0.1000	1.19		1800	18.300	0.1526	
								2000	15.790	0.1596	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002047.

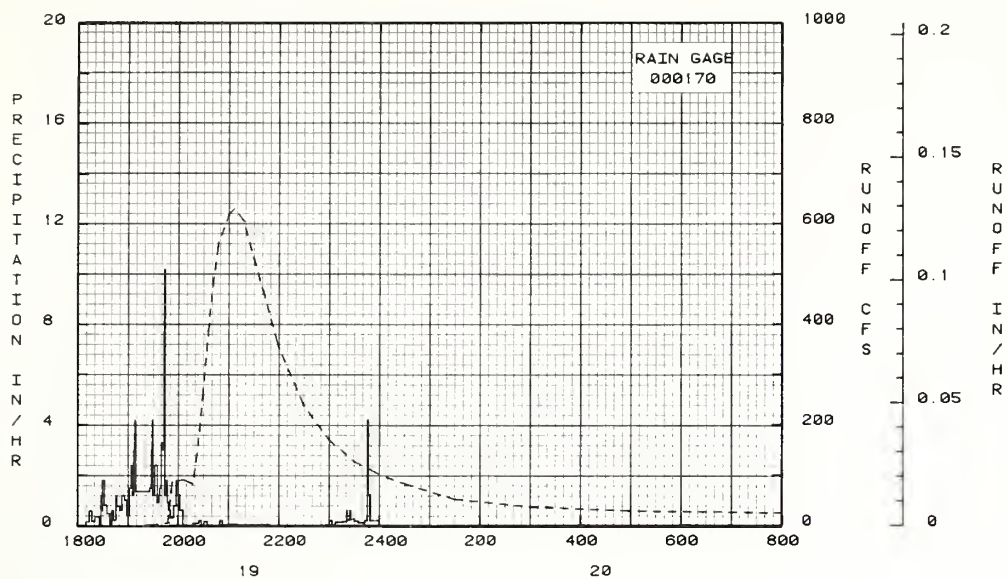


1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA				WATERSHED 611 NEAR ALEX			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF NOVEMBER 19 - 21, 1973										
11-19	RG 000170 0.0	0.005	11-19	RG 000170			11-19			
				1810	0.0	0.0		1923	1.130	0.0
				1814	0.1500	0.01		1936	2.270	0.0001
				1817	0.6000	0.04		1948	5.460	0.0002
				1821	0.1500	0.05		1953	86.440	0.0010
				1826	0.3600	0.08		2006	90.950	0.0049
WATERSHED CONDITIONS: From a revised 1971 survey; sowed crop - 3%; alfalfa - 2%; pasture and range - 95%.				1828	0.0	0.08		2018	82.070	0.0085
				1829	1.2000	0.10		2023	143.810	0.0105
				1830	0.6000	0.11		2030	273.270	0.0155
				1831	1.8000	0.14		2036	386.479	0.0220
				1832	1.8000	0.17		2041	479.408	0.0293
				1835	0.8000	0.21		2048	563.898	0.0418
				1839	0.4500	0.24		2100	620.020	0.0664
				1841	0.0	0.24		2106	630.888	0.0789
				1843	0.6000	0.26		2118	605.688	0.1041
				1846	0.2000	0.27		2130	530.428	0.1278
				1847	1.2000	0.29		2141	467.138	0.1461
				1851	0.7500	0.34		2200	352.100	0.1730
				1853	0.6000	0.36		2230	237.250	0.2031
				1856	1.2000	0.42		2300	169.100	0.2239
				1859	1.0000	0.47		2330	126.430	0.2390
				1902	0.4000	0.49		2400	100.380	0.2507
				1904	1.5000	0.54	11-20	30	82.070	0.2600
				1906	2.4000	0.62		130	51.040	0.2736
				1907	1.2000	0.64		300	35.700	0.2869
				1908	2.9980	0.69		500	27.800	0.2999
				1909	4.2010	0.76		800	23.510	0.3157
				1926	1.3412	1.14		1200	21.530	0.3341
				1928	1.5000	1.19		1800	19.650	0.3594
				1929	3.0000	1.24		2400	19.190	0.3833
				1930	4.1972	1.31				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002047.

1973	SELECTED RUNOFF EVENT			CRICKASHA, OKLAHOMA			WATERSRED 611 NEAR ALEX			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF NOVEMBER 19 - 21, 1973 (CONTINUED)										
11-19			1931		1.2000	1.33				
			1932		1.2000	1.35				
			1934		2.4000	1.43				
			1935		2.4000	1.47				
			1937		0.9000	1.50				
			1938		1.2000	1.52				
			1940		1.5000	1.57				
			1942		3.3000	1.68				
			1943		3.0000	1.73				
			1944		10.2025	1.90				
		1946		1.2000	1.94					
		1947		1.8000	1.97					
		1949		0.9000	2.00					
		1950		0.6000	2.01					
		1951		0.6000	2.02					
		1953		0.3000	2.03					
		1955		0.3000	2.04					
		1958		0.8000	2.08					
		1959		1.8000	2.11					
		2001		1.2000	2.15					
		2002		1.2000	2.17					
		2005		0.6000	2.20					
		2006		0.6000	2.21					
		2007		0.0	2.21					
		2018		0.0	2.21					
		2025		0.0857	2.22					
		2028		0.2000	2.23					
		2031		0.0	2.23					
		2035		0.1500	2.24					
		2050		0.0	2.24					
		2053		0.2000	2.25					
		2059		0.0	2.25					
		2102		0.0	2.25					
		2148		0.0261	2.27					
		2250		0.0	2.27					
		2301		0.0	2.27					
		2304		0.2000	2.28					
		2308		0.0	2.28					
		2317		0.1333	2.30					
		2321		0.1500	2.31					
		2322		0.6000	2.32					
		2325		0.2000	2.33					
		2326		0.6000	2.34					
		2331		0.2400	2.36					
		2335		0.1500	2.37					
		2342		0.0857	2.38					
		2343		0.0	2.38					
		2346		0.2000	2.39					
		2347		4.2010	2.46					
		2349		1.2000	2.50					
		2400		0.1636	2.53					

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.0002047.



EVENT OF NOVEMBER 19 - 21, 1973
CHICKASHA, OKLAHOMA WATERSHED 611 NEAR ALEX

CHICKASAW, OKLAHOMA WATERSHED 612 NEAR ALEX

LOCATION: Little Dry Creek Watershed above State Road 19 bridge in Grady County, Okla.; tributary to Big Dry Creek, Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 33, T. 6 N., R. 6 W., lat. 35 deg. 57 min. N.; long. 97 deg. 51 min. W.; 5 miles Northwest of Alex, Okla.; on state road 19 bridge over Little Dry Creek.

AREA: 563.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASAW, OKLAHOMA WATERSHED 612 NEAR ALEX	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	3.36	0.51	4.69	3.44	3.94	6.69	3.09	1.98	7.05	3.06	4.29	0.24	42.34	
	Q	0.140	0.012	0.106	0.281	0.151	1.500	0.029	0.036	0.153	0.173	0.775	0.123	3.480	
STA AV	P	1.10	1.12	1.65	2.75	3.73	2.90	2.03	2.66	4.46	2.63	2.07	1.02	28.11	
	Q	0.084	0.054	0.059	0.165	0.116	0.295	0.071	0.050	0.178	0.127	0.086	0.109	1.395	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		11-19	0.446	11-19	0.283	11-19	0.314	11-19	0.344	11-19	0.365	6-1	0.536	6-1	0.726
														5-31	1.148
MAXIMUMS FOR PERIOD OF RECORD															
		10-30	0.571	10-30	0.416	10-30	0.591	6-23	0.733	6-23	0.756	10-30	0.837	10-30	0.905
		1972		1972		1972		1963		1963		1972		1972	1973

NOTES: Watershed conditions: From a revised 1971 survey; alfalfa - 3%; pasture and range - 97%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.8-5 (Topography) and p. 69.7-9 (Geologic); 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 2 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Nov. 1961. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)														CHICKASAW, OKLAHOMA WATERSHED 612 NEAR ALEX	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.17	0.0	0.0	1.28	0.0	0.0	0.43	0.0	0.0	0.0			
2	0.38	0.0	0.0	0.52	0.0	2.25	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.77	0.0	0.33	0.04	0.0	0.0	0.0	0.0	0.0	0.85	0.0	0.24			
4	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.06	0.13	0.0	0.0			
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.71	0.16	0.0	0.0			
6	0.32	0.0	0.60	0.0	0.68	0.0	0.0	0.0	1.97	0.09	0.03	0.0			
7	0.21	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.19	0.0	0.02	0.0			
8	0.0	0.0	0.03	0.32	0.0	0.0	0.0	0.0	0.20	0.0	0.02	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.07	0.0	0.0	0.0	0.0			
10	0.0	0.0	0.90	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.82	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.78	0.60	0.0	0.0			
13	0.0	0.0	0.13	0.37	0.0	0.04	0.16	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.13	0.01	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.61	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0			
18	0.0	0.02	0.0	0.0	0.0	1.49	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.68	0.0	0.06	0.0	0.0	0.05	0.0	2.49	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.05	0.0			
21	0.89	0.0	0.0	0.0	0.05	0.0	1.01	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.05	0.0	0.77	1.41	0.0	0.64	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	1.66	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.17	0.0			
24	0.0	0.0	0.35	0.13	0.32	0.0	0.0	0.0	0.11	0.0	1.43	0.0			
25	0.53	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.91	0.21	0.0	0.0			
27	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.38	0.20	0.08	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.29	0.09	0.02	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.17	0.0	0.0	0.14	0.0	0.34	0.0	0.0	0.0	0.0			
30	0.0	0.26	0.0	0.0	0.0	0.0	0.63	0.0	0.0	0.0	0.0	0.0			
31	0.11	0.0	0.0	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	3.36	0.51	4.69	3.44	3.94	6.69	3.09	1.98	7.05	3.06	4.29	0.24			
STA AV	1.10	1.12	1.65	2.75	3.73	2.90	2.03	2.66	4.46	2.63	2.07	1.02			

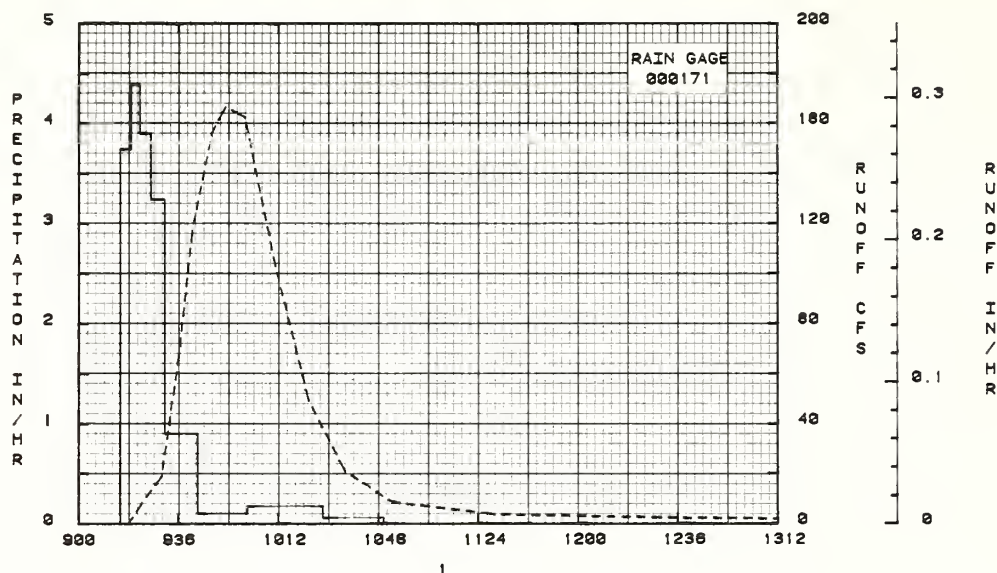
NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 2 rain gages on the watershed. STA AV based on 13 yr (1961-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.010	0.020	0.010	0.157	0.010	6.090	0.024	0.010	0.017	0.051	0.030	0.120
2	0.007	0.011	0.010	0.169	0.010	10.051	0.020	0.010	0.011	0.050	0.030	0.127
3	0.785	0.010	0.010	0.361	0.010	2.705	0.020	0.010	0.010	0.228	0.030	0.170
4	0.086	0.010	0.010	0.135	0.010	2.617	0.020	0.010	0.011	1.498	0.030	0.155
5	0.024	0.010	0.010	0.105	0.010	1.954	0.020	0.010	0.029	0.064	0.030	0.107
6	0.002	0.012	0.010	0.100	0.319	1.471	0.020	0.010	0.560	0.067	0.031	0.099
7	0.0	0.025	0.010	0.100	0.010	0.976	0.020	0.010	0.116	0.061	0.037	0.091
8	0.0	0.012	0.010	0.100	0.010	0.450	0.020	0.010	0.061	0.061	0.031	0.090
9	0.004	0.010	0.010	0.100	0.010	0.227	0.019	0.539	0.041	0.067	0.031	0.090
10	0.026	0.010	0.426	0.100	0.010	0.159	0.011	0.012	0.031	0.059	0.040	0.091
11	0.049	0.010	0.022	0.100	0.009	0.107	0.010	0.010	0.030	0.364	0.046	0.099
12	0.140	0.010	0.020	0.102	0.001	0.100	0.010	0.010	0.688	0.490	0.032	0.100
13	0.031	0.010	0.019	0.115	0.0	0.102	0.010	0.010	0.137	0.221	0.032	0.100
14	0.009	0.010	0.011	0.102	0.0	0.114	0.010	0.010	0.042	0.127	0.045	0.100
15	0.001	0.010	0.010	0.987	0.0	0.094	0.010	0.027	0.040	0.090	0.032	0.099
16	0.454	0.010	0.010	0.589	0.0	0.412	0.010	0.012	0.039	0.061	0.031	0.091
17	0.206	0.010	0.010	0.326	0.0	0.212	0.009	0.010	0.031	0.042	0.039	0.090
18	0.095	0.009	0.010	0.195	0.0	4.287	0.001	0.010	0.030	0.040	0.037	0.091
19	0.044	0.001	0.009	1.016	0.0	1.480	0.0	0.010	0.029	0.040	8.076	0.092
20	0.020	0.0	0.001	0.196	0.0	0.971	0.0	0.010	0.021	0.039	1.851	0.057
21	1.116	0.001	0.0	0.079	0.0	0.411	0.116	0.010	0.020	0.031	1.206	0.060
22	0.017	0.009	0.0	1.250	1.867	0.159	0.081	0.010	0.020	0.030	0.617	0.071
23	0.039	0.010	1.049	0.031	0.002	0.075	0.152	0.010	0.021	0.030	0.282	0.087
24	0.006	0.010	0.091	0.021	0.0	0.042	0.012	0.009	0.027	0.030	2.871	0.090
25	0.002	0.010	0.020	0.020	0.0	0.030	0.010	0.001	0.021	0.031	1.287	0.090
26	0.024	0.010	0.021	0.020	0.0	0.021	0.009	0.001	1.130	0.040	0.714	0.087
27	0.056	0.010	0.027	0.020	0.0	0.022	0.002	0.009	0.195	0.046	0.355	0.072
28	0.017	0.010	0.045	0.019	0.0	0.040	0.009	0.010	0.089	0.032	0.194	0.072
29	0.010		0.192	0.011	0.0	0.056	0.011	0.010	0.064	0.030	0.142	0.087
30	0.012		0.244	0.010	0.0	0.047	0.017	0.010	0.059	0.030	0.122	0.087
31	0.026		0.187		1.293		0.011	0.011		0.030		0.037
MEAN	0.1071	0.0100	0.0812	0.2212	0.1155	1.1829	0.0224	0.0272	0.1208	0.1317	0.6112	0.0937
INCHES	0.140	0.012	0.106	0.281	0.151	1.500	0.029	0.036	0.153	0.173	0.775	0.123
STA AV	0.084	0.054	0.059	0.165	0.116	0.295	0.071	0.050	0.178	0.127	0.086	0.109

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.04228. To convert discharge in inches to AC-FT, multiply by 46.92. STA AV based on 13 yr (1961-73) record period.

1973			SELECTED RUNOFF EVENT				CHICKASHA, OKLAHOMA				WATERSHED 612 NEAR ALEX	
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 1, 1973												
RG 000171			RG 000171									
6- 1	0.0	0.002	6- 1	915	0.0	0.0	6- 1	918	0.100	0.0		
				919	3.7500	0.25		923	8.610	0.0006		
				922	4.4000	0.47		930	19.220	0.0035		
				926	3.9000	0.73		936	65.470	0.0109		
				931	3.2400	1.00		941	117.490	0.0244		
WATERSHED CONDITIONS:												
From a revised 1971 survey;												
sowed crop - 3%; alfalfa -												
2%; pasture and range - 95%.												
				943	0.9000	1.18		948	156.360	0.0525		
				1001	0.1000	1.21		953	166.710	0.0763		
				1028	0.1778	1.29		1000	162.520	0.1101		
				1050	0.0545	1.31		1011	102.990	0.1529		
				1143	0.0	1.31		1023	49.200	0.1798		
								1036	20.960	0.1931		
								1053	8.610	0.2005		
								1130	3.680	0.2072		
								1230	2.420	0.2126		
								2400	1.850	0.2558		

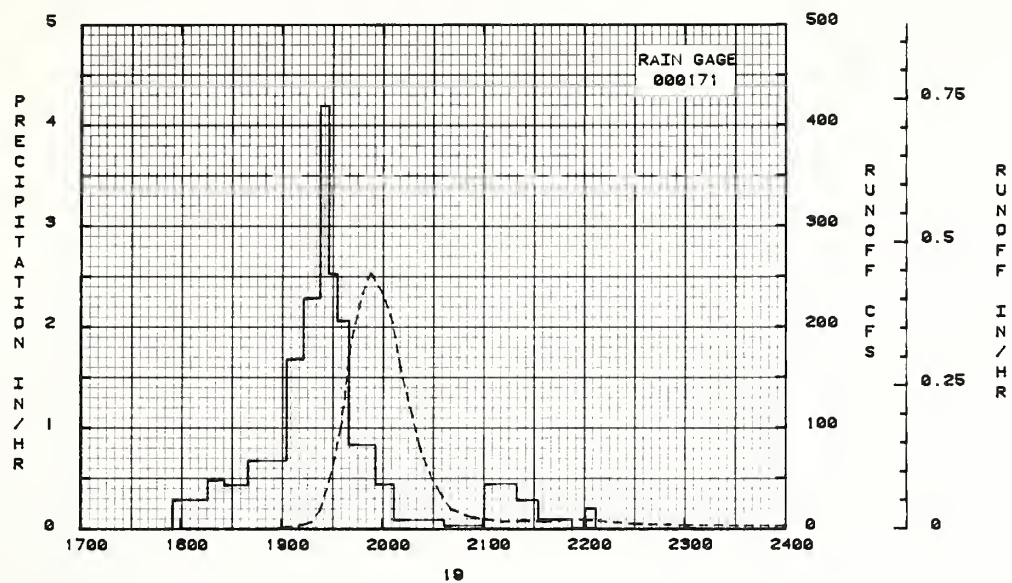
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002047.



EVENT OF JUNE 1, 1973
CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 612 NEAR ALEX					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day
								Rate (cfs)
								Acc. (inches)
EVENT OF NOVEMBER 19 - 20, 1973								
11-19	RG 000171 0.0	0.001	11-19	RG 000171			11-19	
				1755	0.0	0.0	1800	0.040
				1816	0.2857	0.10	1841	0.090
				1826	0.4800	0.18	1853	0.160
				1840	0.4286	0.28	1906	1.850
				1903	0.6783	0.54	1911	3.370
				1913	1.6800	0.82	1918	6.830
				1923	2.2800	1.20	1923	18.120
				1928	4.2000	1.55	1930	56.060
				1933	2.5200	1.76	1936	106.100
				1940	2.0571	2.00	1941	181.930
				1956	0.8250	2.22	1948	233.190
				2007	0.4364	2.30	1953	253.360
				2037	0.0800	2.34	2000	233.190
				2101	0.0250	2.35	2006	204.380
				2120	0.4421	2.49	2011	156.360
				2133	0.2769	2.55	2018	110.890
				2140	0.0857	2.56	2023	76.330
				2153	0.0923	2.58	2030	48.120
				2201	0.0	2.58	2036	31.370
				2207	0.2000	2.60	2041	19.220
							2053	10.980
							2111	6.830
							2123	7.820
							2136	6.830
							2153	9.460
							2200	8.610
							2230	4.540
							2300	3.080
							2400	2.420

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0002047.



EVENT OF NOVEMBER 19 - 20, 1973
CHICKASBA, OKLAHOMA WATERSHED 612 NEAR ALEX

CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above County road South of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 Sec. 34, T. 7 N., R. 10 W., lat. 35 deg. 03 min. N.; long. 98 deg. 15 min. W.; 2 miles South of Anadarko, Okla., on upstream side of section line road bridge.

AREA: 16634.00 acres 26.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	3.30	0.57	7.04	2.59	4.33	3.89	3.72	0.77	7.72	3.01	1.55	0.44	38.93					
	Q	0.063	0.057	0.418	0.251	0.183	0.465	0.036	0.012	0.082	0.124	0.120	0.121	1.930					
STA AV	P	0.83	0.95	1.74	2.66	3.80	2.87	1.98	2.50	4.18	2.26	1.81	0.86	26.44					
	Q	0.069	0.073	0.114	0.150	0.160	0.093	0.030	0.015	0.046	0.034	0.063	0.063	0.911					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 2	0.019	6- 2	0.019	6- 2	0.035	6- 2	0.083	6- 2	0.124	6- 2	0.189	6- 2	0.257	5-31	0.382		
MAXIMUMS FOR PERIOD OF RECORD																			
		5-10	0.046	5-10	0.044	5-10	0.080	5-10	0.135	5-10	0.149	5- 9	0.234	5- 9	0.295	5-31	0.382		
		1964		1964		1964		1964		1964		1964		1964		1973			

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 16%; row crop - 3%; alfalfa - 2%; pasture and range - 73% and miscellaneous - 6%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.7-21 and 1962, USDA Misc. Pub. 1070, p. 69.7-9 (Geologic) and p. 69.10-4 (Topography). Precipitation data obtained from a Thiessen weighted average of 6 gages on the watershed. Precipitation records began Oct. 1961; runoff records began June 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.24	0.0	0.0	0.16	0.0	0.0	0.25	0.0	0.0	0.0			
2	0.58	0.0	0.0	0.25	0.0	2.17	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.57	0.0	0.28	0.06	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.44		
4	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.41	0.57	0.0	0.0	0.0		
5	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.42	0.10	0.0	0.0	0.0		
6	0.29	0.0	0.91	0.0	0.73	0.0	0.0	0.0	2.25	0.01	0.04	0.0	0.0		
7	0.17	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.02	0.0	0.0		
8	0.0	0.0	0.18	0.45	0.0	0.0	0.0	0.0	0.78	0.0	0.02	0.0	0.0		
9	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	1.49	0.0	0.0	0.0	0.68	0.02	0.0	0.28	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.75	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	1.17	0.67	0.0	0.0	0.0		
13	0.0	0.0	0.17	0.28	0.0	0.17	0.15	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.06	0.20	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.10	0.0	0.0	0.0	0.0	0.01	0.0	0.35	0.0	0.0	0.0	0.0		
18	0.0	0.04	0.0	0.0	0.0	0.91	0.04	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.27	0.0	0.10	0.0	0.0	0.0	0.0	0.23	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.0	0.0	0.0	0.03	0.0	0.0		
21	0.84	0.0	0.0	0.0	0.22	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.09	0.0	0.16	1.60	0.0	0.47	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	1.61	0.0	0.05	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.80	0.45	0.12	0.0	0.0	0.0	0.0	0.0	1.14	0.0	0.0		
25	0.60	0.09	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.72	0.0	0.0	0.0	0.0		
27	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.02	0.25	0.07	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.16	0.13	0.02	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.93	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.15	0.0	0.0	0.0	1.61	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.30	0.57	7.04	2.59	4.33	3.89	3.72	0.77	7.72	3.01	1.55	0.44			
STA AV	0.83	0.95	1.74	2.66	3.80	2.87	1.98	2.50	4.18	2.26	1.81	0.86			

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 6 rain gages on the watershed. STA AV based on 13 yr (1961-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSRED 111 NEAR ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.55	1.70	1.49	11.67	2.49	10.81	0.90	0.85	0.07	1.74	1.80	2.76
2	0.61	1.48	1.85	9.01	2.03	129.85	0.70	0.70	0.13	1.69	1.71	2.87
3	2.74	1.38	2.09	8.44	1.81	49.37	0.58	0.62	0.10	1.81	1.65	3.73
4	1.05	1.37	2.62	6.82	1.71	28.42	0.55	0.56	0.10	3.25	1.78	4.17
5	0.82	1.37	1.95	5.61	1.65	15.42	0.51	0.50	0.18	3.34	1.79	3.37
6	0.63	1.39	25.68	4.78	6.43	9.12	0.47	0.41	3.00	2.97	1.76	3.10
7	0.51	1.52	3.41	4.70	5.21	6.46	0.45	0.33	2.05	2.53	1.98	2.91
8	0.42	1.53	2.70	6.18	3.61	5.08	0.37	0.35	2.11	2.19	2.18	2.95
9	0.41	1.46	2.59	5.84	3.02	4.13	0.40	0.50	1.26	1.92	2.25	2.86
10	0.41	1.45	47.67	4.66	2.73	3.53	0.70	0.31	0.94	1.81	2.11	2.74
11	0.41	1.45	10.04	4.12	2.39	3.11	0.97	0.27	0.89	5.97	2.09	2.65
12	0.41	1.45	6.56	4.07	2.03	2.79	0.61	0.23	1.97	6.96	2.11	2.71
13	0.41	1.43	6.11	4.69	1.90	2.74	0.48	0.25	8.02	6.75	2.27	2.64
14	0.44	1.32	4.90	4.37	1.88	2.70	0.52	0.25	2.97	4.67	2.27	2.61
15	0.84	1.30	3.71	11.89	1.78	2.40	0.61	0.28	2.43	3.86	2.09	2.52
16	1.99	1.30	3.03	12.66	1.56	2.12	0.61	0.28	2.15	3.61	1.91	2.51
17	2.02	1.33	2.77	8.03	1.45	1.98	0.56	0.25	2.25	3.24	2.42	2.52
18	1.49	1.51	2.71	6.36	1.37	10.24	0.49	0.22	2.16	2.86	5.11	2.58
19	1.19	1.51	2.50	6.14	1.28	10.18	0.34	0.19	1.90	2.54	2.78	2.38
20	1.15	1.33	2.20	5.10	1.12	6.19	0.45	0.17	1.68	2.39	2.82	2.08
21	5.57	1.30	2.02	4.28	1.09	4.31	3.40	0.20	1.33	2.18	2.54	2.27
22	2.86	1.31	2.02	3.85	3.88	3.04	2.07	0.10	1.16	1.92	2.31	2.44
23	1.72	1.37	8.26	4.06	25.60	2.22	1.63	0.07	1.07	1.80	2.23	2.80
24	1.50	1.43	33.78	5.52	9.58	1.66	1.17	0.05	0.93	1.72	7.11	2.85
25	1.97	1.39	23.16	4.82	6.65	1.37	0.84	0.03	0.89	1.71	6.88	2.76
26	3.56	1.44	12.68	4.35	4.72	1.16	0.63	0.02	3.72	1.73	4.66	2.73
27	2.41	1.44	9.54	3.81	3.11	1.04	0.51	0.03	4.35	1.87	3.94	2.65
28	1.56	1.39	8.68	3.39	2.33	1.15	0.45	0.03	2.93	1.89	3.41	2.73
29	1.45		6.80	3.11	1.91	1.26	0.67	0.04	2.25	1.89	3.11	2.76
30	1.44		30.36	2.85	1.61	1.09	1.13	0.05	1.98	1.89	2.88	2.80
31	1.43		18.05		20.07		1.07	0.04		1.88		1.30
MEAN	1.420	1.416	9.417	5.839	4.129	10.831	0.802	0.264	1.900	2.793	2.798	2.733
INCRS	0.063	0.057	0.418	0.251	0.183	0.465	0.036	0.012	0.082	0.124	0.120	0.121
STA AV	0.069	0.073	0.114	0.150	0.160	0.093	0.030	0.015	0.046	0.034	0.063	0.063

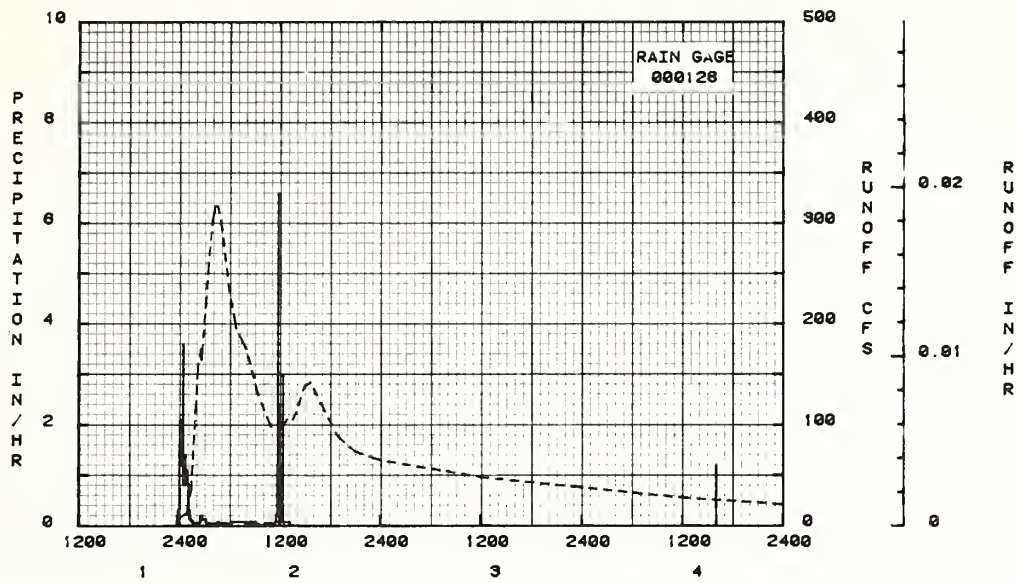
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001431. To convert discharge in inches to AC-PT, multiply by 1,386. STA AV based on 12 yr (1962-73) record period.

1973 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSRED 111 NEAR ANADARKO										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 1 - 9, 1973										
RG 000128										
6- 1	0.0		6- 1	2348	0.0	0.0	6- 2	23	9.170	0.0
6- 2		0.000		2351	0.2000	0.01		48	12.090	0.0003
				2354	0.0	0.01		100	12.090	0.0004
				2358	0.3000	0.03		111	22.660	0.0006
			6- 2	7	0.3333	0.08		130	36.660	0.0011
WATERSRED CONDITIONS:										
From a revised 1971 survey;										
sowed crop - 16%; row crop -										
3%; alfalfa - 2%; pasture										
and range - 73%; and miscel-										
laneous - 6%.										
				10	1.6000	0.16		141	66.680	0.0017
				14	2.1000	0.30		200	115.800	0.0034
				16	1.2000	0.34		218	160.710	0.0059
				25	1.4000	0.55		236	174.980	0.0089
				28	2.0000	0.65		241	163.820	0.0097
				30	1.8000	0.71		311	220.160	0.0155
				32	3.6000	0.83		330	261.020	0.0200
				35	0.8000	0.87		400	303.668	0.0284
				40	1.2000	0.97		418	317.188	0.0340
				46	0.8000	1.05		436	317.188	0.0396
				49	1.4000	1.12		500	299.240	0.0470
				55	1.1000	1.23		600	231.430	0.0628
				59	1.0500	1.30		648	195.100	0.0730
				102	1.0000	1.35		800	174.980	0.0862
				110	0.8250	1.46		930	128.370	0.0998
				116	0.3000	1.49		1100	97.820	0.1099
				122	0.2000	1.51		1206	94.780	0.1162
				127	0.1200	1.52		1253	105.730	0.1209
				143	0.0750	1.54		1336	105.730	0.1254
				152	0.0	1.54		1400	112.370	0.1280
				205	0.0462	1.55		1500	137.910	0.1354
				227	0.0545	1.57		1541	141.870	0.1411
				237	0.0600	1.58		1700	119.300	0.1514
				249	0.2000	1.62		1900	87.460	0.1637
				315	0.1154	1.67		2100	72.760	0.1733

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00005962.

1973	SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA			WATERSHED 111 NEAR ABADARKO			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JUNE 1 - 9, 1973 (CONTINUED)										
6- 2	328	0.0462	1.68	6- 2	2400	64.360	0.1855			
	343	0.0400	1.69	6- 3	1200	47.740	0.2256			
	355	0.0	1.69		2400	37.630	0.2561			
	422	0.0444	1.71	6- 4	1200	27.520	0.2794			
	435	0.0462	1.72		2400	21.020	0.2968			
	450	0.0800	1.74	6- 5	1200	14.520	0.3095			
	518	0.0429	1.76		2400	11.605	0.3188			
	531	0.0462	1.77	6- 6	1200	8.690	0.3261			
	542	0.0545	1.78		2400	7.505	0.3319			
	601	0.0316	1.79	6- 7	1200	6.320	0.3368			
	611	0.0	1.79		2400	5.680	0.3411			
	623	0.0500	1.80	6- 8	1200	5.040	0.3450			
	758	0.0758	1.92		2400	4.560	0.3484			
	801	0.0	1.92	6- 9	1200	4.080	0.3515			
	802	0.0	1.92		2400	3.795	0.3543			
	814	0.0500	1.93							
	827	0.0	1.93							
	835	0.0750	1.94							
	843	0.0750	1.95							
	906	0.0	1.95							
	914	0.0750	1.96							
	936	0.0273	1.97							
	943	0.0	1.97							
	951	0.0	1.97							
	959	0.0	1.97							
	1015	0.0	1.97							
	1026	0.0545	1.98							
	1035	0.0	1.98							
	1101	0.0462	2.00							
	1114	0.0	2.00							
	1131	0.0353	2.01							
	1140	0.0667	2.02							
	1148	0.2250	2.05							
	1150	1.2000	2.09							
	1151	6.6000	2.20							
	1152	2.4000	2.24							
	1154	1.5000	2.29							
	1158	0.3000	2.31							
	1159	1.2000	2.33							
	1207	0.3750	2.38							
	1212	0.2400	2.40							
	1214	0.3000	2.41							
	1219	0.1200	2.42							
	1222	0.2000	2.43							
	1223	0.6000	2.44							
	1224	0.6000	2.45							
	1225	0.6000	2.46							
	1226	3.0000	2.51							
	1315	0.0612	2.56							
	1315	0.0	2.56							
6- 4	1600	0.0	2.56							
	1601	1.2000	2.58							
	1602	1.2000	2.60							

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00005962.



EVENT OF JUNE 1 - 9, 1973
CHICKASHA, OKLAHOMA WATERSHED 111 NEAR ANADARKO

LOCATION: Delaware Creek Watershed above County road bridge East of Anadarko in Caddo County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 Sec. 29, T. 7 N., E. 9 W., lat 35 deg. 03 min. N., long. 98 deg. 10 min. W., 3 miles East and 1 mile South of Anadarko, Okla., at section liue road bridge.

[illegible]

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 15%; row crop - 5%; alfalfa - 2%; pasture and range - 67%; and miscellaneous - 11%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.11-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Aug. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973	DAILY PRECIPITATION (iuches)					CEICKASEA, OKLAHOMA			WATERSEED 131 NEAR ANADARKO			
Day	Jau	Feb	Mar	Apr	May	Juu	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.33	0.0	0.0	0.64	0.0	0.0	0.24	0.0	0.0	0.0
2	0.55	0.0	0.0	0.29	0.0	2.30	0.0	0.0	0.0	0.0	0.0	0.0
3	0.63	0.0	0.04	0.05	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.14
4	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.32	0.45	0.0	0.0
5	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.57	0.13	0.0	0.0
6	0.36	0.0	0.65	0.0	0.34	0.0	0.0	0.0	2.43	0.02	0.04	0.0
7	0.22	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.02	0.0
8	0.0	0.0	0.21	0.46	0.0	0.0	0.0	0.0	0.72	0.0	0.02	0.0
9	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0
10	0.0	0.0	1.47	0.0	0.0	0.0	0.89	0.0	0.0	0.01	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.11	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.69	0.0	0.0
13	0.0	0.0	0.09	0.26	0.0	0.10	0.42	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.06	0.37	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.58	0.0	0.0	0.05	0.40	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0
18	0.0	0.05	0.0	0.0	0.0	0.99	0.01	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.27	0.0	0.14	0.0	0.0	0.0	0.0	0.25	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	1.32	0.0	0.0	0.0	0.02	0.0
21	0.54	0.0	0.0	0.0	0.14	0.0	0.62	0.0	0.0	0.0	0.0	0.0
22	0.0	0.08	0.0	0.41	1.65	0.0	1.39	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	1.77	0.0	0.08	0.0	0.02	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.70	0.37	0.11	0.0	0.0	0.0	0.0	0.0	1.04	0.0
25	0.56	0.12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
26	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.13	0.06	0.0	0.0
27	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.04	0.26	0.15	0.0
28	0.0	0.0	0.0	0.0	0.0	0.19	0.23	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.01	0.0	0.0	0.0	0.0
30	0.0	0.37	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0
31	0.18	0.0	0.0	0.0	1.68	0.0	0.0	0.10	0.0	0.0	0.0	0.0
TOTAL	3.19	0.57	5.97	2.69	4.00	4.64	5.85	0.77	7.82	3.18	1.54	0.14
STA AV	0.93	1.06	1.72	2.81	3.97	2.77	2.16	2.41	4.23	2.52	1.98	0.92

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV based on 13 yr (1961-73) record period.

1973	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.60	3.50	3.01	7.25	2.47	52.15	1.20	2.19	0.19	3.02	2.60	4.09
2	1.57	2.84	4.57	6.59	1.31	339.51	0.96	1.76	0.30	2.96	2.39	4.28
3	7.76	2.60	3.62	8.78	1.07	27.24	0.92	1.54	0.20	2.90	2.38	5.01
4	3.60	2.49	3.36	6.37	1.06	12.86	0.85	1.39	0.19	6.70	2.47	5.24
5	1.80	2.45	3.08	4.99	1.06	9.12	0.75	1.34	0.32	7.25	2.49	4.29
6	1.22	2.35	11.50	4.55	4.89	7.06	0.73	1.14	9.45	5.64	2.63	3.77
7	0.90	2.69	6.15	4.79	3.62	6.05	0.63	0.99	10.19	4.53	2.98	3.73
8	0.86	2.23	5.26	7.24	2.58	5.13	0.49	0.89	10.69	3.50	3.20	3.83
9	0.86	2.14	4.92	7.56	2.35	4.56	0.46	2.34	4.99	3.01	3.01	3.73
10	0.85	2.23	55.81	5.88	2.14	4.17	0.91	1.38	2.69	2.70	2.89	3.73
11	0.75	2.75	13.91	5.28	1.92	3.73	0.95	1.12	2.17	18.99	2.97	3.87
12	0.74	2.70	7.36	5.41	1.67	3.45	0.77	0.89	2.16	16.70	2.99	3.99
13	0.75	2.34	6.17	7.16	1.63	3.49	1.18	0.79	8.54	15.90	2.99	3.89
14	0.89	1.87	5.09	6.52	1.63	3.88	3.35	0.71	3.04	7.78	2.96	3.83
15	1.97	1.63	4.12	13.24	1.61	3.40	5.58	0.81	1.74	6.05	2.72	3.58
16	6.45	1.52	3.71	15.52	1.45	2.81	1.58	1.23	1.45	5.56	2.44	3.45
17	4.91	1.93	3.43	6.97	1.30	2.70	1.10	0.90	2.16	4.78	2.59	3.58
18	3.49	2.85	3.27	6.06	1.20	11.62	0.88	0.70	2.42	4.36	2.73	3.76
19	2.80	2.93	3.04	6.23	1.07	10.82	0.78	0.61	2.21	4.01	3.01	3.29
20	2.62	2.52	2.35	5.14	1.01	4.16	0.80	0.43	1.77	3.56	3.93	2.98
21	5.69	2.27	2.15	4.26	1.05	3.06	25.82	0.33	1.55	3.13	3.45	3.38
22	5.34	2.23	2.11	6.76	1.70	2.49	5.54	0.27	1.46	2.78	3.04	3.69
23	3.19	2.63	16.93	10.15	47.25	2.05	65.41	0.19	1.44	2.71	3.02	3.83
24	2.81	2.48	74.16	11.34	4.86	1.76	7.01	0.14	1.39	2.60	11.88	3.71
25	3.97	2.35	26.98	6.86	3.67	1.62	3.80	0.10	1.40	2.49	14.94	3.60
26	9.90	2.75	10.08	4.85	2.75	1.45	3.12	0.09	20.54	2.56	7.50	3.65
27	5.84	2.63	8.62	4.06	1.95	1.35	2.49	0.07	19.74	3.03	6.46	3.47
28	3.78	2.62	10.73	3.55	1.35	1.60	2.08	0.07	5.90	2.99	5.64	3.54
29	2.61		7.76	3.06	1.14	1.68	2.65	0.07	3.90	2.89	4.78	3.58
30	2.91		11.90	2.94	1.09	1.45	3.48	0.09	3.29	2.96	4.36	3.60
31	3.08		12.65		45.30		2.97	0.10		2.84		1.59
MEAN	3.081	2.447	10.897	6.645	4.811	17.880	4.815	0.796	4.249	5.191	4.048	3.728
INCHES	0.089	0.064	0.313	0.185	0.138	0.498	0.138	0.023	0.118	0.149	0.113	0.107
STA AV	0.052	0.058	0.092	0.112	0.139	0.078	0.016	0.006	0.022	0.034	0.035	0.047

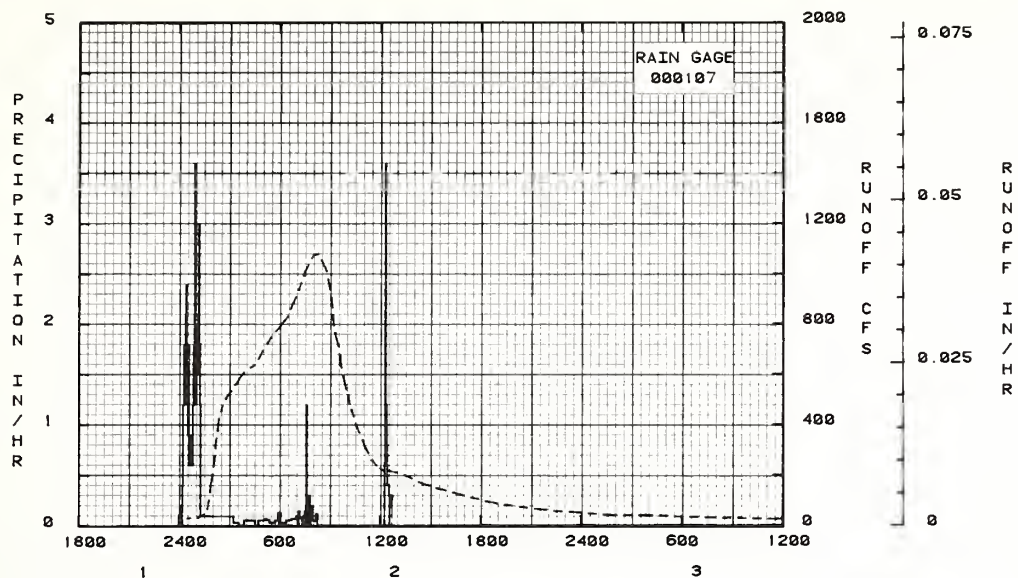
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0009276. To convert discharge in inches to AC-FT, multiply by 2,138. STA AV based on 12 yr (1962-73) record period.

1973	SELECTED RUNOFF EVENT					CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO					
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 1 - 8, 1973											
RG 000107			RG 000107								
6- 2	0.0	0.001	6- 2	1	0.0	0.0	6- 2	30	30.400	0.0	
				6	0.1200	0.01		41	32.120	0.0002	
				9	0.2000	0.02		106	32.120	0.0007	
				11	0.0	0.02		130	44.380	0.0013	
				14	0.4000	0.04		141	67.130	0.0017	
WATERSHED CONDITIONS:											
From a revised 1971 survey;					15	1.2000	0.06	148	104.150	0.0021	
sowed crop - 15%; row crop -					17	1.2000	0.10	153	157.410	0.0025	
5%; alfalfa - 2%; pasture					18	1.8000	0.13	200	204.990	0.0033	
and range - 67%; and miscel-					19	1.2000	0.15	206	247.510	0.0042	
laneous - 11%.					20	1.8000	0.18	211	319.080	0.0051	
				21	1.2000	0.20		218	378.830	0.0067	
				22	1.8000	0.23		223	428.388	0.0080	
				23	1.2000	0.25		230	454.580	0.0100	
				25	2.1000	0.32		236	477.448	0.0118	
				26	2.4000	0.36		248	509.860	0.0156	
				27	1.8000	0.39		306	534.979	0.0217	
				29	1.5000	0.44		330	572.760	0.0302	
				31	1.8000	0.50		353	610.020	0.0390	
				35	0.9000	0.56		418	631.070	0.0490	
				36	1.8000	0.59		430	638.138	0.0539	
				38	0.6000	0.61		448	669.580	0.0615	
				42	0.9000	0.67		500	697.148	0.0668	
				46	0.9000	0.73		518	729.550	0.0750	
				49	0.6000	0.76		530	750.438	0.0808	
				51	1.2000	0.80		600	788.229	0.0956	
				53	1.8000	0.86		630	832.870	0.1113	
				55	1.2000	0.90		648	884.698	0.1212	
				56	3.6000	0.96		700	908.610	0.1282	
				100	1.9500	1.09		730	1009.770	0.1467	
				102	1.5000	1.14		800	1075.270	0.1669	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00003865.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF			JUNE 1 - 8, 1973 (CONTINUED)							
6- 2			103		1.2000	1.16	6- 2	818	1082.070	0.1794
			106		1.8000	1.25		830	1053.280	0.1876
			108		1.5000	1.30		848	1009.770	0.1996
			110		2.1000	1.37		900	937.600	0.2071
			111		3.0000	1.42		906	895.830	0.2106
			114		1.8000	1.51		911	823.570	0.2134
			116		1.2000	1.55		918	763.969	0.2170
			117		1.2000	1.57		930	710.350	0.2227
			316		0.0908	1.75		936	671.020	0.2254
			336		0.0300	1.76		941	625.438	0.2275
			353		0.0	1.76		948	590.600	0.2302
			403		0.0600	1.77		1000	537.648	0.2346
			423		0.0600	1.79		1006	516.428	0.2366
			434		0.0545	1.80		1011	481.310	0.2382
			446		0.0	1.80		1018	458.370	0.2403
			507		0.0571	1.82		1036	393.120	0.2453
			515		0.0750	1.83		1100	326.908	0.2508
			525		0.0600	1.84		1118	285.178	0.2544
			546		0.0286	1.85		1130	258.820	0.2565
			556		0.0600	1.86		1148	237.370	0.2593
			605		0.1333	1.88		1200	225.410	0.2611
			625		0.0300	1.89		1211	217.550	0.2627
			635		0.0600	1.90		1230	216.570	0.2654
			645		0.0600	1.91		1300	208.830	0.2695
			701		0.0750	1.93		1330	198.330	0.2734
			707		0.1000	1.94		1430	165.330	0.2804
			710		0.0	1.94		1530	145.360	0.2864
			714		0.1500	1.95		1700	116.610	0.2940
			722		0.0750	1.96		1900	84.920	0.3018
			726		0.0	1.96		2130	62.640	0.3089
			732		0.1000	1.97		2400	48.780	0.3143
			736		0.1500	1.98	6- 3	141	40.920	0.3172
			738		0.0	1.98		348	40.250	0.3206
			739		1.2000	2.00		800	30.400	0.3263
			744		0.1200	2.01		1230	24.100	0.3310
			746		0.0	2.01		1900	18.270	0.3364
			750		0.3000	2.03		2400	15.160	0.3396
			754		0.0	2.03	6- 4	1200	12.730	0.3461
			800		0.2000	2.05		2400	10.805	0.3515
			812		0.0500	2.06	6- 5	1200	8.880	0.3561
			817		0.1200	2.07		2400	7.905	0.3600
			832		0.0	2.07	6- 6	1200	6.930	0.3634
			1215		0.0	2.07		2400	6.495	0.3665
			1217		0.0	2.07	6- 7	1200	6.060	0.3694
			1219		0.6000	2.09		2400	5.565	0.3721
			1220		3.6000	2.15	6- 8	1200	5.070	0.3746
			1222		0.9000	2.18		2400	4.800	0.3769
			1223		1.2000	2.20				
			1226		0.8000	2.24				
			1229		0.4000	2.26				
			1232		0.4000	2.28				
			1234		0.3000	2.29				
			1235		0.0	2.29				
			1238		0.2000	2.30				
			1240		0.3000	2.31				
			1242		0.3000	2.32				
			1244		0.3000	2.33				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00003865.



EVENT OF JUNE 1 - 8, 1973
CHICKASHA, OKLAHOMA WATERSHED 131 NEAR ANADARKO

CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA

LOCATION: Line Creek Watershed above U.S. Highway 81 bridge at Chickasha, Grady and Caddo Counties, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NE 1/4 sec. 29, T. 7 N., R. 7 W., lat. 35 deg. 03 min. N., long. 97 deg. 58 min. W., Northwest edge of Chickasha, Okla., at U.S. Highway 81 bridge.

AREA: 33300.00 acres 52.00 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASRA, OKLAHOMA WATERSHED 411 AT CHICKASRA												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	2.99	0.50	5.11	2.81	4.50	4.58	4.48	0.96	7.47	3.48	1.95	0.28	39.11					
	Q	0.030	0.001	0.232	0.116	0.237	0.654	0.026	0.016	0.085	0.153	0.055	0.016	1.621					
STA AV	P	0.83	1.01	1.59	2.76	3.67	2.80	1.97	2.46	4.06	2.36	1.94	0.91	26.36					
	Q	0.005	0.004	0.026	0.061	0.092	0.094	0.012	0.036	0.032	0.081	0.038	0.007	0.488					
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 2	0.024	6- 2	0.024	6- 2	0.047	6- 2	0.126	6- 2	0.197	6- 2	0.356	6- 2	0.506	5-31	0.669		
MAXIMUMS FOR PERIOD OF RECORD																			
		8-28	0.060	8-28	0.053	8-28	0.096	8-28	0.204	10- 3	0.301	10- 3	0.463	10- 2	0.552	5-31	0.669		
		1965		1965		1965		1965		1971		1971		1971		1973			

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 30%; row crop - 2%; alfalfa - 9%; pasture and range - 48% and miscellaneous - 11%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.12-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 13 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Sept. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.28	0.0	0.0	0.44	0.0	0.0	0.22	0.0	0.0	0.0	
2	0.49	0.0	0.0	0.31	0.0	1.89	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.70	0.0	0.06	0.03	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.28	
4	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.43	0.40	0.0	0.0	
5	0.0	0.0	0.04	0.0	0.0	0.34	0.0	0.0	0.56	0.17	0.0	0.0	
6	0.30	0.0	0.67	0.0	0.33	0.0	0.0	0.0	2.16	0.05	0.04	0.0	
7	0.23	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.01	0.0	
8	0.0	0.0	0.20	0.41	0.0	0.0	0.0	0.0	0.50	0.0	0.02	0.0	
9	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.0	
10	0.0	0.0	1.09	0.0	0.0	0.0	0.88	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	1.31	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.72	0.0	0.0	
13	0.0	0.0	0.03	0.22	0.0	0.04	0.62	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.63	0.0	0.0	0.11	0.40	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.0	0.0	
18	0.0	0.02	0.0	0.0	0.0	0.72	0.01	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.47	0.0	0.36	0.0	0.0	0.0	0.0	0.50	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.02	0.0	
21	0.44	0.0	0.0	0.0	0.08	0.0	0.38	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.07	0.0	0.48	1.98	0.0	0.83	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	1.63	0.0	0.10	0.0	0.14	0.0	0.0	0.0	0.01	0.0	
24	0.0	0.0	0.55	0.26	0.41	0.0	0.0	0.0	0.0	0.0	1.21	0.0	
25	0.48	0.11	0.0	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	
26	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.04	0.10	0.0	0.0	
27	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.11	0.31	0.14	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.26	0.28	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.03	0.0	0.0	0.0	0.12	0.0	0.13	0.0	0.0	0.0	0.0	
30	0.0	0.29	0.0	0.0	0.07	0.0	0.47	0.0	0.0	0.0	0.0	0.0	
31	0.15	0.0	0.0	0.0	1.53	0.0	0.0	0.02	0.0	0.0	0.0	0.0	
TOTAL	2.99	0.50	5.11	2.81	4.50	4.58	4.48	0.96	7.47	3.48	1.95	0.28	
STA AV	0.83	1.01	1.59	2.76	3.67	2.80	1.97	2.46	4.06	2.36	1.94	0.91	

1973	MEAN DAILY DISCHARGE (cfs)					CRICKASRA, OKLAHOMA WATERSHED 411 AT CRICKASRA						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.00	0.25	0.26	4.72	1.85	59.74	0.85	0.80	0.77	0.98	0.81	0.98
2	0.16	0.15	0.05	4.53	1.77	467.68	0.83	0.77	0.45	1.26	0.60	0.88
3	8.34	0.13	0.08	4.22	1.81	257.52	0.81	0.76	0.42	2.43	0.57	1.81
4	9.36	0.09	0.05	4.07	1.82	62.84	0.81	0.74	2.88	1.88	0.57	2.07
5	4.50	0.07	0.04	3.81	1.80	20.15	0.83	0.73	0.96	0.81	0.57	1.68
6	0.55	0.06	5.06	2.85	5.20	9.48	0.83	0.73	9.39	1.00	0.57	1.18
7	0.0	0.13	4.79	2.56	4.59	4.85	0.81	0.73	0.73	0.93	0.55	0.90
8	0.0	0.05	3.09	3.16	2.97	2.95	0.80	0.72	1.45	0.84	0.52	0.78
9	0.0	0.05	1.24	3.01	2.16	2.02	0.79	3.37	0.62	0.77	0.49	0.73
10	0.0	0.04	21.44	2.73	1.88	1.65	2.71	0.70	0.58	0.71	0.48	0.69
11	0.0	0.04	29.51	2.42	1.71	1.47	1.09	0.70	0.57	56.89	0.49	0.64
12	0.0	0.04	8.46	2.25	1.69	1.39	1.04	0.70	3.26	55.39	0.52	0.63
13	0.0	0.03	3.12	2.55	1.69	1.30	5.06	0.70	2.29	56.26	0.55	0.63
14	0.20	0.03	1.75	2.27	1.68	1.24	1.27	0.67	0.63	15.57	0.56	0.63
15	1.08	0.03	0.83	5.61	1.62	1.18	1.78	1.36	0.66	5.13	0.52	0.60
16	0.77	0.02	0.32	28.85	1.53	1.80	1.01	0.73	0.63	2.89	0.50	0.57
17	1.10	0.02	0.24	8.42	1.56	1.14	1.00	0.63	1.28	1.92	0.51	0.55
18	1.59	0.03	0.23	4.85	1.56	1.62	0.96	0.63	0.82	1.65	0.49	0.55
19	0.86	0.03	0.21	20.63	1.46	14.92	0.96	0.63	0.74	1.26	1.96	0.57
20	0.44	0.02	0.20	10.40	1.40	11.26	1.02	0.60	0.64	0.95	0.65	0.65
21	2.86	0.03	0.20	4.53	1.36	3.58	1.41	0.60	0.63	0.88	0.45	0.47
22	0.42	0.02	0.24	4.23	4.03	1.78	1.39	0.60	0.63	0.84	0.44	0.44
23	0.38	0.02	9.69	10.05	75.72	1.19	1.01	0.57	0.62	0.77	0.42	0.44
24	0.26	0.02	128.95	6.45	79.86	1.06	0.88	0.57	0.58	0.70	11.30	0.44
25	1.01	0.25	68.59	5.37	38.82	1.00	0.99	0.57	0.63	0.66	35.34	0.49
26	2.74	0.04	15.85	3.47	8.63	0.95	0.88	0.57	10.07	0.69	9.13	0.58
27	3.44	0.02	6.93	2.47	3.86	0.89	0.86	0.55	59.94	1.60	3.96	0.45
28	1.89	0.02	6.25	2.04	1.98	1.02	0.90	0.55	14.09	0.60	2.42	0.42
29	0.99		5.70	1.84	1.46	1.05	0.84	0.54	2.99	0.60	1.57	0.42
30	0.45		5.26	1.77	1.81	0.88	1.72	0.50	1.47	0.78	1.20	0.42
31	0.30		5.06		81.59		0.83	0.49		1.83		0.20
MEAN	1.409	0.062	10.764	5.538	10.997	31.320	1.193	0.759	4.048	7.079	2.623	0.725
INCHES	0.030	0.001	0.232	0.116	0.237	0.654	0.026	0.016	0.085	0.153	0.055	0.016
STA AV	0.005	0.004	0.026	0.061	0.092	0.094	0.012	0.036	0.032	0.081	0.038	0.007

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0007148. To convert discharge in inches to AC-FT, multiply by 2,775. STA AV based on 12 yr (1962-73) record period.

1973	SELECTED RUNOFF EVENT				CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 31 - JUNE 6, 1973											
RG 000109			RG 000109								
5-31	0.0	0.000	5-31	140	0.0	0.0	5-31	148	1.290	0.0	
				143	1.8000	0.09		200	1.570	0.0000	
				147	1.2000	0.17		206	3.620	0.0000	
				149	0.6000	0.19		218	9.410	0.0001	
				150	0.6000	0.20		236	18.280	0.0002	
WATERSHED CONDITIONS: From a revised 1971 survey; sowed crop - 30%; row crop - 2%; alfalfa - 9%; pasture and range - 48%; miscel- laneous - 11%.				156	0.7000	0.27		300	17.610	0.0004	
				159	0.6000	0.30		336	19.880	0.0007	
				207	0.2250	0.33		341	29.010	0.0008	
				211	0.3000	0.35		348	43.520	0.0009	
				216	0.2400	0.37		411	57.030	0.0015	
				229	0.1385	0.40		430	59.130	0.0020	
				234	0.2400	0.42		448	56.210	0.0025	
				243	0.2667	0.46		530	43.520	0.0035	
				253	0.3000	0.51		630	31.060	0.0046	
				258	0.2400	0.53		648	26.480	0.0048	
				301	0.2000	0.54		730	40.020	0.0055	
				308	0.0857	0.55		800	51.390	0.0062	
				314	0.1000	0.56		830	64.760	0.0070	
				318	0.1500	0.57		911	79.810	0.0084	
				322	0.1500	0.58		1000	93.850	0.0105	
324	1.2000	0.62		1100	106.200	0.0134					
327	0.4000	0.64		1200	113.290	0.0166					
328	0.6000	0.65		1300	126.290	0.0201					
331	1.6000	0.73		1400	128.850	0.0238					
335	1.5000	0.83		1800	117.530	0.0381					
338	1.8000	0.92		2100	107.360	0.0478					
344	1.1000	1.03		2400	96.580	0.0567					
349	0.7200	1.09	6- 1	300	84.350	0.0646					
353	0.6000	1.13		430	75.890	0.0681					
358	0.3600	1.16		730	60.830	0.0740					

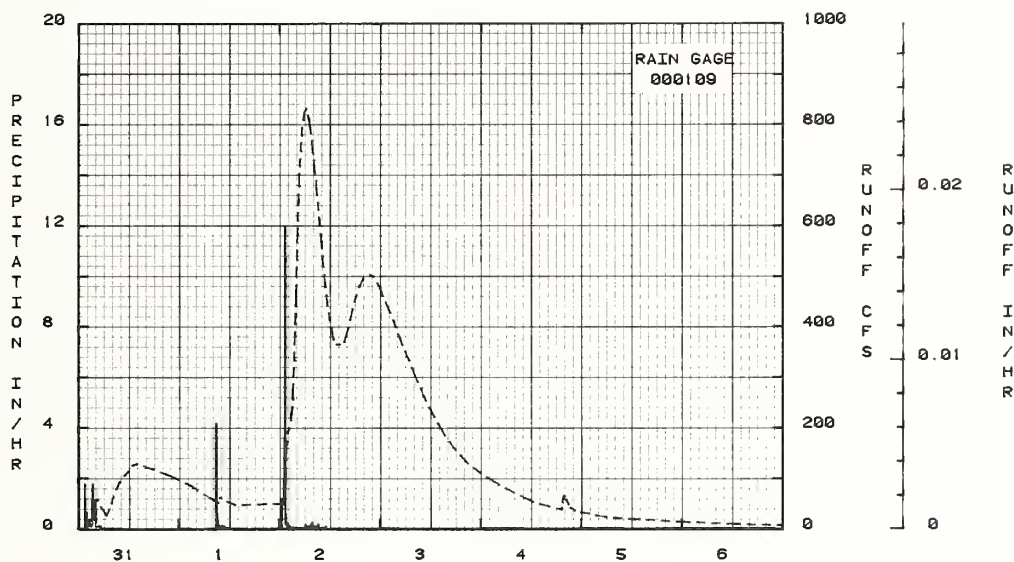
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002978.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 31 - JUNE 6, 1973 (CONTINUED)										
			5-31	402	1.0500	1.23	6- 1	930	50.220	0.0773
				409	0.9429	1.34		953	61.260	0.0779
				413	1.0500	1.41		1011	62.560	0.0784
				416	0.8000	1.45		1200	51.390	0.0814
				525	0.0870	1.55		1330	46.430	0.0835
			6- 1	900	0.0	1.55		2100	49.840	0.0940
				901	3.0000	1.60		2400	49.070	0.0983
				902	4.2000	1.67	6- 2	111	48.310	0.1000
				905	1.4000	1.74		123	59.970	0.1003
				907	2.1000	1.81		130	79.810	0.1005
				910	0.6000	1.84		136	98.240	0.1008
				912	0.3000	1.85		141	121.870	0.1011
				916	0.3000	1.87		148	151.770	0.1015
				924	0.1500	1.89		153	173.680	0.1019
				930	0.1000	1.90		206	193.170	0.1031
				945	0.0800	1.92		230	200.470	0.1054
				954	0.0667	1.93		300	226.710	0.1085
				1001	0.0	1.93		318	258.448	0.1106
				1012	0.1091	1.95		323	287.448	0.1112
				1018	0.1000	1.96		336	318.128	0.1131
				1032	0.0857	1.98		341	350.500	0.1139
				1037	0.1200	1.99		348	390.428	0.1152
				1100	0.0783	2.02		353	426.510	0.1162
			6- 2	35	0.0	2.02		400	454.070	0.1177
				38	0.0	2.02		406	483.878	0.1190
				41	0.4000	2.04		411	517.448	0.1202
				43	0.6000	2.06		418	552.250	0.1220
				49	1.0000	2.16		423	595.628	0.1234
				51	1.2000	2.20		436	648.490	0.1273
				55	1.2000	2.28		448	703.790	0.1313
				58	1.2000	2.34		511	764.918	0.1394
				101	1.0000	2.39		530	795.648	0.1466
				105	1.0500	2.46		600	825.290	0.1584
				106	1.2000	2.48		623	832.350	0.1676
				110	1.6500	2.59		700	813.020	0.1823
				113	2.0000	2.69		730	783.620	0.1939
				115	1.2000	2.73		800	744.790	0.2050
				116	3.6000	2.79		830	703.790	0.2155
				119	3.2000	2.95		900	660.908	0.2254
				120	3.6000	3.01		930	613.479	0.2346
				121	3.6000	3.07		1000	569.388	0.2432
				122	3.6000	3.13		1030	517.448	0.2511
				123	12.0000	3.33		1100	477.310	0.2583
				124	5.4000	3.42		1130	441.418	0.2650
				128	2.1000	3.56		1230	390.428	0.2770
				129	7.2000	3.68		1300	373.030	0.2826
				130	10.8000	3.86		1348	363.928	0.2911
				131	2.4000	3.90		1430	363.928	0.2985
				133	1.8000	3.96		1530	370.740	0.3092
				134	1.8000	3.99		1630	398.688	0.3203
				137	0.4000	4.01		1730	435.178	0.3324
				138	0.6000	4.02		1900	479.928	0.3523
				141	0.2000	4.03		2000	495.830	0.3665
				143	0.3000	4.04		2130	503.878	0.3883
				152	0.1333	4.06		2230	498.499	0.4028
				157	0.2400	4.08		2400	474.698	0.4240
				204	0.0857	4.09	6- 3	230	426.510	0.4567
				220	0.1500	4.13		441	377.628	0.4821
				230	0.1200	4.15		700	331.948	0.5060
				242	0.0500	4.16		900	290.438	0.5240
				306	0.0	4.16		1100	252.850	0.5398
				316	0.0600	4.17		1300	220.630	0.5535
				559	0.0294	4.25		1530	183.680	0.5682
				619	0.0300	4.26		1800	156.020	0.5805
				626	0.1714	4.28		2100	128.850	0.5929
				636	0.0600	4.29		2400	109.710	0.6033
				652	0.0750	4.31	6- 4	430	86.940	0.6161
				701	0.0	4.31		800	70.670	0.6241
				715	0.0857	4.33		1230	52.970	0.6322
				722	0.0857	4.34		1630	43.160	0.6378
				729	0.0	4.34		1918	37.660	0.6411
				738	0.0667	4.35		1930	41.750	0.6413
				741	0.0	4.35		1936	52.970	0.6414
				744	0.2000	4.36		1948	63.430	0.6418
				753	0.0	4.36		2000	65.650	0.6422

NOTES: To convert runoff in CFS to IN/EE, multiply by 0.00002978.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 31 - JUNE 6, 1973 (CONTINUED)										
			6- 2	800	0.2571	4.39	6- 4	2011	63.870	0.6425
				806	0.1000	4.40		2030	57.030	0.6431
				813	0.0857	4.41		2100	47.550	0.6438
				819	0.0	4.41		2130	42.100	0.6445
				832	0.0923	4.43		2230	35.700	0.6456
				838	0.1000	4.44		2400	31.660	0.6471
				844	0.1000	4.45	6- 5	600	23.050	0.6518
				858	0.0857	4.47		1200	18.960	0.6555
				920	0.0	4.47		2400	13.260	0.6611
				923	0.2000	4.48	6- 6	1200	9.200	0.6650
				939	0.0	4.48		2400	6.270	0.6677
				954	0.0400	4.49				
				1007	0.0	4.49				
				1105	0.0	4.49				
				1111	0.1000	4.50				
				1114	0.0	4.50				

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00002978.



EVENT OF MAY 31 - JUNE 6, 1973
CHICKASHA, OKLAHOMA WATERSHED 411 AT CHICKASHA

CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER

LOCATION: West Bitter Creek Watershed above U.S. Highway 62 bridge, East of Chickasha in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 29, T. 7 N., R. 6 W., lat. 35 deg. 03 min. N., long. 97 deg. 51 min. W., 4 miles East of Chickasha, Okla., at U.S. highway 62 bridge.

AREA: 38020.00 acres 59.40 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA			WATERSHED 511 NEAR TABLER									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	3.36	0.55	5.76	2.47	5.70	5.64	3.00	1.75	7.92	3.14	2.79	0.19	42.27					
	Q	0.190	0.100	1.109	0.506	1.073	2.040	0.163	0.178	0.740	0.405	0.504	0.235	7.243					
STA AV	P	0.89	1.07	1.92	2.86	3.50	3.22	2.02	3.06	4.02	2.45	2.00	0.97	27.97					
	Q	0.054	0.051	0.171	0.303	0.299	0.367	0.035	0.143	0.226	0.177	0.125	0.069	2.020					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 5	0.076	6- 5	0.076	6- 5	0.151	6- 4	0.408	6- 4	0.549	6- 2	0.695	6- 1	0.829	5-31	1.996		
MAXIMUMS FOR PERIOD OF RECORD																			
		4-12	0.086	4-12	0.086	4-12	0.169	10- 2	0.462	10- 2	0.729	10- 2	0.796	10- 2	0.832	5-31	1.996		
		1967		1967		1967		1971		1971		1971		1971		1971		1973	

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 22%; row crop - 3%; alfalfa - 5%; pasture and range - 61% and miscellaneous - 9%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.13-11 (Topography) and p. 69.7-21 (Composite). Precipitation records began Oct. 1961; runoff records began Oct. 1962. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.14	0.0	0.0	0.56	0.0	0.0	0.30	0.0	0.0	0.0		
2	0.37	0.0	0.0	0.32	0.0	1.91	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.77	0.0	0.10	0.05	0.0	0.0	0.0	0.0	1.41	0.31	0.0	0.19		
4	0.0	0.0	0.0	0.0	0.0	1.40	0.02	0.0	0.28	0.30	0.0	0.0		
5	0.0	0.0	0.04	0.0	0.01	0.15	0.0	0.0	0.39	0.19	0.0	0.0		
6	0.30	0.0	1.32	0.0	0.67	0.0	0.0	0.0	1.21	0.06	0.03	0.0		
7	0.17	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.08	0.01	0.0		
8	0.0	0.0	0.15	0.36	0.0	0.0	0.0	0.0	0.30	0.0	0.02	0.0		
9	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.46	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.86	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	1.06	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.06	0.54	0.0	0.0		
13	0.0	0.0	0.09	0.10	0.0	0.04	0.50	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.24	0.02	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.70	0.0	0.0	0.01	0.27	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0		
18	0.0	0.03	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.57	0.0	0.41	0.0	0.0	0.0	0.0	1.24	0.0		
20	0.01	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.05	0.0		
21	0.82	0.0	0.0	0.0	0.11	0.0	0.09	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.18	0.0	0.36	0.91	0.0	0.50	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	1.60	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.14	0.0		
24	0.0	0.0	0.96	0.01	1.79	0.0	0.0	0.0	0.01	0.0	1.21	0.0		
25	0.47	0.06	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.68	0.46	0.0	0.0		
27	0.01	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.48	0.14	0.09	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.17	0.16	0.01	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.03	0.0	0.0	0.14	0.0	0.01	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.25	0.0	0.63	0.0	0.74	0.0	0.0	0.0	0.0	0.0		
31	0.19	0.0	0.0	0.0	1.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.36	0.55	5.76	2.47	5.70	5.64	3.00	1.75	7.92	3.14	2.79	0.19		
STA AV	0.89	1.07	1.92	2.86	3.50	3.22	2.02	3.06	4.02	2.45	2.00	0.97		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 15 rain gages on the watershed. STA AV based on 13 yr. (1961-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CRICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLE												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.5	9.1	5.1	26.2	13.9	165.5	11.3	7.5	2.5	11.6	9.0	15.5
2	1.7	7.7	5.4	23.0	12.6	1092.8	10.0	6.1	3.1	9.6	8.7	15.2
3	18.2	6.4	5.2	36.3	12.1	220.4	8.9	5.5	2.7	8.6	8.5	16.1
4	9.4	6.4	5.3	28.1	12.1	352.1	8.7	5.0	274.1	17.3	8.4	16.7
5	3.9	6.2	5.2	21.8	11.8	782.1	8.5	4.6	48.0	16.1	8.4	14.6
6	1.7	5.9	200.5	19.4	37.5	96.0	8.6	4.7	62.5	13.6	8.5	13.2
7	1.2	6.3	31.6	18.9	26.0	55.2	8.1	4.4	39.9	11.3	9.2	12.8
8	1.0	6.9	17.4	21.0	15.4	48.7	7.2	3.8	21.7	9.8	9.6	12.7
9	1.0	6.1	15.1	21.2	12.9	39.7	7.0	158.9	15.0	8.8	9.0	12.7
10	1.0	6.2	178.0	18.0	11.8	29.8	8.0	15.1	10.3	8.3	8.6	12.5
11	1.0	6.2	77.9	16.6	11.1	24.8	9.0	7.4	7.8	121.9	9.1	12.7
12	1.0	6.0	34.5	16.2	10.2	22.7	6.8	5.6	7.6	74.9	8.8	12.7
13	1.0	5.7	21.9	16.1	10.0	21.8	7.5	4.5	185.7	68.8	8.8	12.4
14	1.0	5.0	17.3	15.7	9.5	23.4	19.8	4.0	46.6	29.9	9.1	12.1
15	1.6	4.6	13.4	25.9	8.6	22.0	8.9	4.2	25.4	20.1	8.8	12.1
16	7.3	4.3	11.6	84.4	8.4	21.6	7.7	5.8	13.9	15.1	8.7	11.8
17	21.3	4.6	10.7	33.5	8.2	21.9	6.9	3.5	28.6	12.3	8.5	11.6
18	8.5	5.3	10.6	24.1	8.1	22.5	6.4	3.0	31.6	11.2	8.5	11.8
19	5.2	5.5	10.5	85.3	7.9	33.7	5.7	2.8	17.3	10.6	37.3	10.3
20	4.3	5.1	9.7	41.1	7.4	21.6	5.4	2.6	12.3	10.1	134.1	9.1
21	59.3	4.8	9.5	26.2	7.2	18.5	11.9	2.5	9.4	9.7	22.3	11.7
22	28.6	4.6	9.3	31.5	7.6	16.6	7.2	2.4	7.9	9.0	14.6	12.6
23	10.4	5.7	25.0	38.9	48.4	15.1	11.3	2.3	6.9	8.5	12.6	12.2
24	7.0	5.7	390.4	22.7	578.8	14.0	6.1	2.3	6.4	8.6	177.8	12.0
25	6.6	5.2	340.9	18.7	276.0	12.8	5.0	2.2	6.2	8.4	121.9	11.3
26	42.6	4.9	96.6	17.2	42.4	12.3	4.6	2.0	65.1	8.5	42.6	10.9
27	20.6	4.6	58.9	15.9	20.2	11.7	4.6	1.9	139.3	56.6	27.3	10.6
28	11.0	4.6	47.4	15.3	13.6	12.3	4.6	2.1	48.7	16.1	21.6	10.6
29	7.8		37.0	14.5	10.8	13.7	5.2	2.5	21.8	11.6	18.3	10.6
30	8.1		31.7	14.3	9.9	13.2	6.1	2.3	14.6	10.4	16.8	10.6
31	8.3		37.9		443.8		24.0	2.2		9.7		4.5
MEAN	9.78	5.69	57.14	26.94	55.29	108.61	8.42	9.15	39.43	20.88	26.84	12.13
INCRBS	0.190	0.100	1.109	0.506	1.073	2.040	0.163	0.178	0.740	0.405	0.504	0.235
STA AV	0.054	0.051	0.171	0.303	0.299	0.367	0.035	0.143	0.226	0.177	0.125	0.069

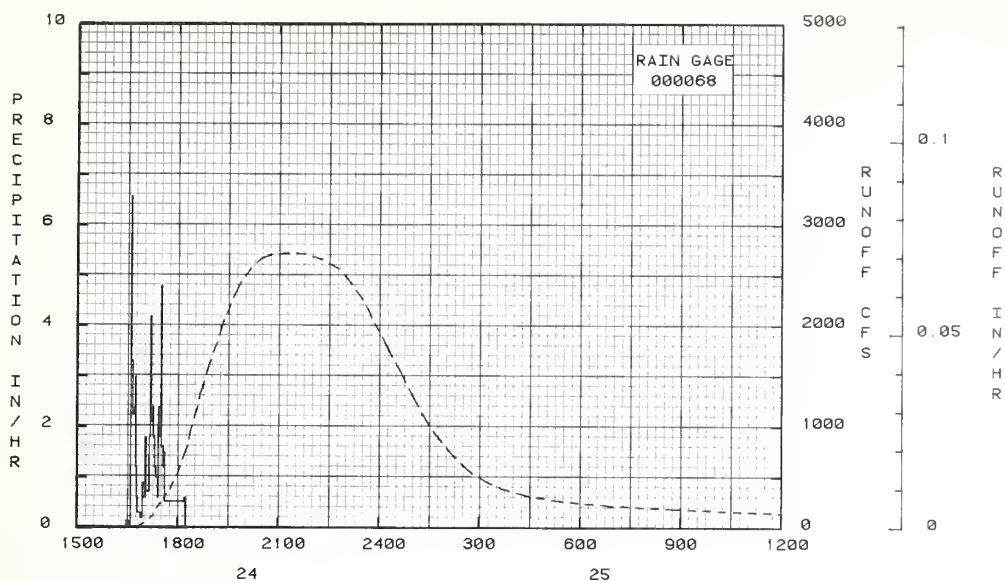
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0006260. To convert discharge in inches to AC-FT, multiply by 3,168. STA AV based on 12 yr (1962-73) record period.

1973 SELECTED RUNOFF EVENT CRICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLE											
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 24 - 27, 1973											
RG 000068											
5-24	0.0	0.005	5-24	1629	0.0	0.0	5-24	1630	9.780	0.0	
				1633	0.1500	0.01		1648	15.410	0.0001	
				1637	0.0	0.01		1653	25.440	0.0001	
				1638	6.5956	0.12		1700	46.530	0.0002	
				1640	3.3000	0.23		1711	92.520	0.0006	
WATERSHED CONDITIONS:											
From a revised 1971 survey;											
sowed crop - 22%; row crop -											
3%; alfalfa - 5%; pasture											
and range - 61%; and miscel-											
laneons - 9%.											
				1644	2.2500	0.38		1718	133.800	0.0009	
				1645	2.3984	0.42		1723	194.240	0.0013	
				1646	3.0000	0.47		1730	245.630	0.0019	
				1648	1.2000	0.51		1736	295.360	0.0026	
				1649	0.6000	0.52		1741	332.370	0.0033	
				1655	0.3000	0.55		1748	385.408	0.0044	
				1658	0.2000	0.56		1753	453.850	0.0053	
				1702	0.9000	0.62		1800	526.780	0.0068	
				1704	0.6000	0.64		1806	607.550	0.0083	
				1705	1.8000	0.67		1811	702.120	0.0097	
				1710	0.7200	0.73		1818	806.090	0.0120	
				1712	1.8000	0.79		1823	942.620	0.0139	
				1713	4.2010	0.86		1830	1087.740	0.0170	
				1714	4.2010	0.93		1836	1202.090	0.0200	
				1716	2.1000	1.00		1841	1330.590	0.0227	
				1717	2.4000	1.04		1848	1451.990	0.0270	
				1719	1.8000	1.10		1853	1564.928	0.0303	
				1720	1.8000	1.13		1900	1668.188	0.0352	
				1722	1.2000	1.17		1906	1779.500	0.0397	
				1725	1.0000	1.22		1911	1841.698	0.0436	
				1726	0.6000	1.23		1918	1965.888	0.0494	
				1727	2.3984	1.27		1923	2064.770	0.0538	
				1728	1.8000	1.30		1930	2145.290	0.0602	
				1731	2.2000	1.41		1941	2307.090	0.0708	
				1732	4.8012	1.49		1953	2439.969	0.0832	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002608.

1973	SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 511 NEAR TABLER			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 27, 1973 (CONTINUED)										
5-24			1735		1.6000	1.57	5-24	2011	2582.117	0.1029
			1736		1.2000	1.59		2030	2676.585	0.1246
			1738		1.5000	1.64		2048	2714.767	0.1457
			1813		0.5143	1.94		2111	2724.345	0.1729
			1815		0.6000	1.96		2118	2724.345	0.1812
								2148	2714.767	0.2166
								2218	2660.746	0.2517
								2248	2566.508	0.2858
								2300	2489.038	0.2990
								2311	2412.539	0.3107
								2330	2265.448	0.3300
								2341	2156.888	0.3406
								2353	2013.668	0.3515
								2400	1951.928	0.3575
							5-25	11	1833.540	0.3665
								23	1699.698	0.3758
								36	1575.128	0.3850
								48	1442.120	0.3929
								100	1313.938	0.4001
								111	1204.378	0.4061
								118	1134.260	0.4097
								130	1020.530	0.4153
								141	932.280	0.4199
								153	849.310	0.4246
								206	765.698	0.4292
								218	692.958	0.4330
								230	623.219	0.4364
								248	538.270	0.4409
								311	460.010	0.4459
								341	382.540	0.4514
								430	308.370	0.4588
								530	258.928	0.4662
								700	215.330	0.4755
								900	181.410	0.4858
								1200	139.110	0.4983
								1600	109.090	0.5113
								2000	89.400	0.5217
								2400	76.620	0.5303
							5-26	400	59.240	0.5374
								900	41.820	0.5440
								1300	35.030	0.5480
								1900	29.470	0.5531
								2200	29.470	0.5554
								2400	27.920	0.5569
							5-27	600	22.650	0.5608
								1000	21.760	0.5631
								1200	19.630	0.5642
								1800	16.500	0.5671
								2400	14.710	0.5695

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002608.



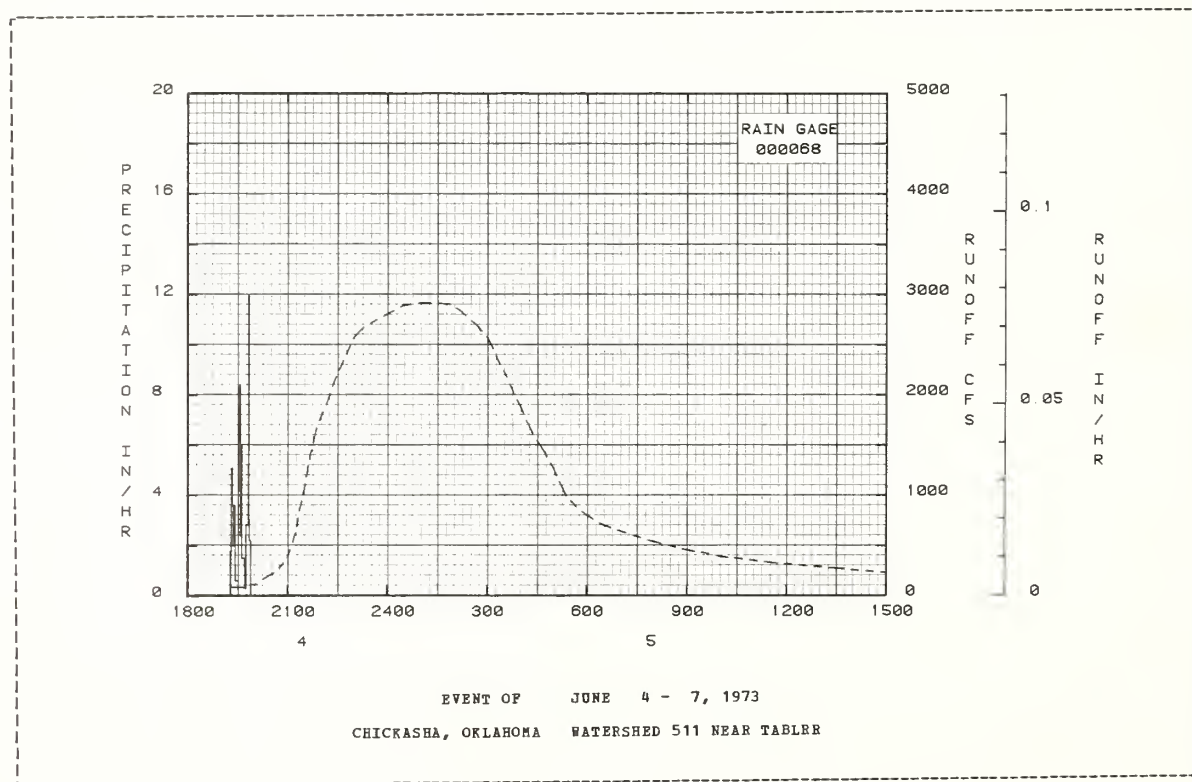
EVENT OF MAY 24 - 27, 1973
CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER

1973			SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 511 NEAR TABLER		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 4 - 7, 1973											
RG 000068			RG 000068								
6- 4	0.0	0.058	6- 4	1919	0.0	0.0	6- 4	1918	87.360	0.0	
				1920	1.8000	0.03		1941	88.380	0.0009	
				1922	5.1012	0.20		1953	113.790	0.0014	
				1923	3.5976	0.26		2006	119.830	0.0021	
				1926	2.0000	0.36		2018	175.170	0.0028	
WATERSHED CONDITIONS: From a revised 1971 survey; sowed crop - 22%; row crop - 3%; alfalfa - 5%; pasture and range - 61%; and miscel- laneous - 9%.				1927	3.5976	0.42		2036	232.610	0.0044	
				1930	0.6000	0.45		2048	294.070	0.0058	
				1932	0.6000	0.47		2053	326.969	0.0065	
				1933	7.2018	0.59		2100	382.540	0.0076	
				1934	4.1722	0.66		2106	464.658	0.0087	
				1936	8.4021	0.94		2111	553.178	0.0098	
				1937	2.4000	0.98		2118	702.120	0.0117	
				1938	2.9980	1.03		2123	875.270	0.0134	
				1939	6.0015	1.13		2130	1042.019	0.0163	
				1941	1.5000	1.18		2136	1220.448	0.0193	
	1943	1.5000	1.23		2141	1385.898	0.0221				
	1944	1.2000	1.25		2148	1547.128	0.0266				
	1946	0.3000	1.26		2153	1676.050	0.0301				
	1950	2.8500	1.45		2200	1768.780	0.0353				
	1951	12.0029	1.65		2211	1918.590	0.0441				
	1952	3.0000	1.70		2218	2016.500	0.0501				
	1955	2.2000	1.81		2223	2116.388	0.0546				
					2236	2277.310	0.0670				
					2248	2427.769	0.0793				
					2300	2572.746	0.0924				
							2318	2679.769	0.1129		
							2400	2807.935	0.1630		
							6- 5	30	2899.106	0.2002	
								100	2918.797	0.2382	
								118	2918.797	0.2610	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002608.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 511 NEAR TABLER								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 4 - 7, 1973 (CONTINUED)											
							6- 5	153	2902.385	0.4101	
								211	2840.355	0.3277	
								241	2692.467	0.3638	
								300	2575.865	0.3856	
								311	2458.329	0.3976	
								323	2307.090	0.4101	
								336	2174.350	0.4227	
								348	2016.500	0.4336	
								400	1885.479	0.4438	
								411	1742.070	0.4525	
								423	1611.060	0.4613	
								436	1496.750	0.4700	
								448	1385.898	0.4776	
								500	1266.850	0.4845	
								511	1129.800	0.4902	
								523	999.229	0.4958	
								541	885.350	0.5031	
								600	800.270	0.5101	
								630	700.290	0.5199	
								711	621.469	0.5317	
								800	536.620	0.5440	
								900	453.850	0.5569	
								1000	389.740	0.5679	
								1130	326.969	0.5820	
								1330	268.780	0.5975	
								1630	223.330	0.6167	
								2000	185.620	0.6354	
								2400	144.540	0.6526	
							6- 6	600	112.600	0.6728	
								1200	94.630	0.6890	
								1800	73.840	0.7022	
								2400	61.670	0.7128	
							6- 7	1200	53.780	0.7308	
								2400	51.565	0.7473	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00002608.



CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO

LOCATION: Tonkawa Creek Watershed above county road East-Northeast of Anadarko, in Caddo County, Okla.; tributary to Washita River: Red River Basin. GAGING STATION--NE1/4 sec. 18, T. 7 N., R. 9 W., lat. 35 deg. 05 min. N., long. 98 deg. 11 min. W., 2-1/2 miles East of Anadarko, Okla., on upstream side of section line road bridge.

AREA: 25020.00 acres 39.10 sq. miles

MONTHLY PRECIPITATION AND RONOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	3.23	0.54	7.26	2.61	4.35	4.06	4.12	0.82	7.55	2.98	1.51	0.44	39.47					
	Q	0.0	0.0	0.072	0.105	0.020	0.214	0.0	0.0	0.0	0.001	0.010	0.048	0.471					
STA AV	P	0.82	0.95	1.75	2.71	3.73	2.89	1.98	2.50	4.11	2.24	1.79	0.86	26.32					
	Q	0.0	0.002	0.011	0.030	0.052	0.023	0.0	0.001	0.0	0.000	0.004	0.004	0.126					
ANNUAL MAXIMOM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RONOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 3	0.002	6- 3	0.002	6- 3	0.004	6- 3	0.011	6- 3	0.021	6- 3	0.042	6- 3	0.079	6- 2	0.169		
MAXIMOMS FOR PERIOD OF RECORD																			
		5-11	0.004	5-11	0.004	5-11	0.007	5-11	0.021	5-11	0.038	5- 6	0.070	5- 6	0.127	5- 4	0.278		
		1964		1964		1964		1964		1964		1969		1969		1969			

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 30%; row crop - 5%; alfalfa - 11%; pasture and range - 29%; and miscellaneous - 25%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1962, USDA Misc. Pub. 1070, p. 69.10-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 10 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.18	0.0	0.0	0.16	0.0	0.0	0.26	0.0	0.0	0.0
2	0.58	0.0	0.0	0.25	0.0	2.11	0.0	0.0	0.0	0.0	0.0	0.0
3	0.57	0.0	0.27	0.08	0.0	0.0	0.0	0.0	0.0	0.37	0.0	0.44
4	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.38	0.59	0.0	0.0
5	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.40	0.10	0.0	0.0
6	0.31	0.0	1.08	0.0	0.74	0.0	0.0	0.0	2.17	0.01	0.04	0.0
7	0.19	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.01	0.0
8	0.0	0.0	0.16	0.47	0.0	0.0	0.0	0.0	0.75	0.0	0.02	0.0
9	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0
10	0.0	0.0	1.51	0.0	0.0	0.0	0.76	0.01	0.0	0.22	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0
12	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	1.10	0.68	0.0	0.0
13	0.0	0.0	0.21	0.32	0.0	0.11	0.23	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.08	0.14	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.35	0.0	0.0	0.0
18	0.0	0.04	0.0	0.0	0.0	1.08	0.04	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.27	0.0	0.15	0.0	0.0	0.0	0.0	0.21	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.93	0.0	0.0	0.0	0.04	0.0
21	0.76	0.0	0.0	0.0	0.26	0.0	0.58	0.0	0.0	0.0	0.0	0.0
22	0.0	0.08	0.0	0.13	1.60	0.0	0.67	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	1.69	0.0	0.06	0.0	0.01	0.01	0.0	0.0	0.0	0.0
24	0.0	0.0	0.88	0.43	0.08	0.0	0.0	0.0	0.0	0.0	1.12	0.0
25	0.57	0.08	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0
26	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.72	0.0	0.0	0.0
27	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0	0.03	0.24	0.07	0.0
28	0.0	0.0	0.0	0.0	0.0	0.19	0.20	0.01	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.88	0.0	0.01	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0
31	0.14	0.0	0.0	1.60	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0
TOTAL	3.23	0.54	7.26	2.61	4.35	4.06	4.12	0.82	7.55	2.98	1.51	0.44
STA AV	0.82	0.95	1.75	2.71	3.73	2.89	1.98	2.50	4.11	2.24	1.79	0.86

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 10 rain gages on the watershed. STA AV based on 13 yr. (1961-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 110 NEAR ANADARKO												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	9.410	1.059	2.594	0.0	0.0	0.0	0.0	0.0	2.171
2	0.0	0.0	0.0	9.365	0.784	9.406	0.0	0.0	0.0	0.0	0.0	2.100
3	0.0	0.0	0.0	9.271	0.467	42.419	0.0	0.0	0.0	0.0	0.0	2.090
4	0.0	0.0	0.0	7.629	0.324	40.577	0.0	0.0	0.0	0.0	0.0	2.080
5	0.0	0.0	0.0	5.665	0.199	32.465	0.0	0.0	0.0	0.0	0.0	2.030
6	0.0	0.0	0.076	4.301	0.216	24.095	0.0	0.0	0.0	0.0	0.0	2.090
7	0.0	0.0	0.0	3.575	0.137	15.360	0.0	0.0	0.0	0.0	0.0	2.150
8	0.0	0.0	0.0	3.237	0.184	8.704	0.0	0.0	0.0	0.0	0.0	2.070
9	0.0	0.0	0.0	3.135	0.561	5.564	0.0	0.0	0.0	0.0	0.0	1.861
10	0.0	0.0	0.202	3.172	1.095	4.281	0.0	0.0	0.0	0.0	0.0	1.709
11	0.0	0.0	0.0	2.986	0.574	3.670	0.0	0.0	0.0	0.005	0.0	1.612
12	0.0	0.0	0.0	2.646	0.259	3.301	0.0	0.0	0.0	0.037	0.0	1.497
13	0.0	0.0	0.001	2.474	0.129	2.901	0.0	0.0	0.0	0.0	0.0	1.471
14	0.0	0.0	0.0	2.566	0.064	2.397	0.0	0.0	0.0	0.0	0.0	1.402
15	0.0	0.0	0.0	2.862	0.005	1.652	0.0	0.0	0.0	0.0	0.0	1.287
16	0.0	0.0	0.0	3.072	0.0	1.039	0.0	0.0	0.0	0.0	0.0	1.219
17	0.0	0.0	0.0	4.109	0.0	0.645	0.0	0.0	0.0	0.031	0.0	1.210
18	0.0	0.0	0.0	4.592	0.0	0.638	0.0	0.0	0.0	0.220	0.0	1.202
19	0.0	0.0	0.0	4.262	0.0	1.997	0.0	0.0	0.0	0.265	0.0	1.049
20	0.0	0.0	0.0	3.457	0.0	3.420	0.0	0.0	0.0	0.202	0.0	0.379
21	0.0	0.0	0.0	2.851	0.0	3.977	0.0	0.0	0.0	0.140	0.0	0.456
22	0.0	0.0	0.0	2.576	0.062	3.751	0.0	0.0	0.0	0.082	0.0	1.914
23	0.0	0.0	0.194	2.564	0.047	3.435	0.0	0.0	0.0	0.042	0.0	2.090
24	0.0	0.0	0.001	2.264	0.428	3.151	0.0	0.0	0.0	0.020	0.056	2.020
25	0.0	0.0	5.567	1.961	1.915	2.409	0.0	0.0	0.0	0.002	0.366	2.000
26	0.0	0.0	20.594	1.831	2.445	1.001	0.0	0.0	0.0	0.0	0.972	1.930
27	0.0	0.0	16.366	1.631	2.496	0.269	0.0	0.0	0.0	0.0	2.042	1.850
28	0.0	0.0	11.876	1.480	2.252	0.081	0.0	0.0	0.0	0.0	2.395	1.752
29	0.0	0.0	7.849	1.245	1.932	0.030	0.0	0.0	0.0	0.0	2.350	1.569
30	0.0	0.0	5.759	0.649	1.697	0.002	0.0	0.0	0.0	0.0	2.260	1.497
31	0.0	0.0	6.917	1.955	1.955	0.0	0.0	0.0	0.0	0.0	0.0	0.766
MEAN	0.0	0.0	2.4323	3.6947	0.6867	7.5077	0.0	0.0	0.0	0.0338	0.3481	1.6299
INCHES	0.0	0.0	0.072	0.105	0.020	0.214	0.0	0.0	0.0	0.001	0.010	0.048
STA AV	0.0	0.002	0.011	0.030	0.052	0.023	0.0	0.001	0.0	0.000	0.004	0.004

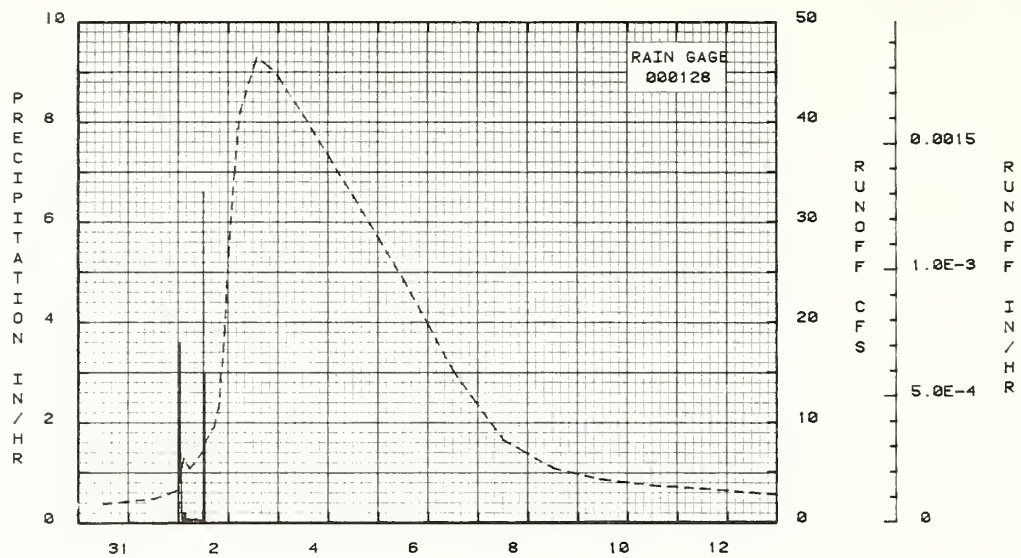
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by .0009513. To convert discharge in inches to AC-FT, multiply by 2,085. STA AV based on 11 yr (1963-73) record period.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA				WATERSHED 110 NEAR ANADARKO			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 31 - JUNE 14, 1973										
RG 000128			EG 000128							
6- 1	0.0		6- 1	2348	0.0	0.0	5-31	1200	1.930	0.0
5-31		0.001		2351	0.2000	0.01		2400	2.185	0.0010
				2354	0.0	0.01	6- 1	1200	2.440	0.0021
				2358	0.3000	0.03		2400	3.310	0.0034
			6- 2	7	0.3333	0.08	6- 2	100	4.100	0.0036
WATERSHED CONDITIONS:				10	1.6000	0.16		130	5.630	0.0037
From a revised survey:				14	2.1000	0.30		230	6.470	0.0039
sowed crop - 30%; row crop -				16	1.2000	0.34		500	5.350	0.0045
5%; alfalfa - 11%; pasture				25	1.4000	0.55		1200	7.240	0.0063
and range - 29%; and miscel-				28	2.0000	0.65		1230	8.040	0.0064
laneous - 25%.				30	1.8000	0.71		1700	9.590	0.0080
				32	3.6000	0.83		1930	11.890	0.0091
				35	0.8000	0.87		2200	18.980	0.0106
				40	1.2000	0.97		2400	26.800	0.0124
				46	0.8000	1.05	6- 3	300	35.610	0.0161
				49	1.4000	1.12		530	41.040	0.0199
				55	1.1000	1.23		1330	46.470	0.0338
				59	1.0500	1.30		2100	45.260	0.0474
				102	1.0000	1.35		2400	44.470	0.0527
				110	0.8250	1.46	6- 4	1200	40.640	0.0730
				116	0.3000	1.49		2400	36.560	0.0913
				122	0.2000	1.51	6- 5	1200	32.480	0.1078
				127	0.1200	1.52		2400	28.340	0.1222
				143	0.0750	1.54	6- 6	1200	24.200	0.1347
				152	0.0	1.54		2400	19.640	0.1452
				205	0.0462	1.55	6- 7	1200	15.080	0.1534
				227	0.0545	1.57		2400	11.640	0.1598
				237	0.0600	1.58	6- 8	1200	8.200	0.1645
				249	0.2000	1.62		2400	6.775	0.1680
				315	0.1154	1.67	6- 9	1200	5.350	0.1709

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.000039638.

1973			SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 110 NEAR ANADARKO		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 31 - JUNE 14, 1973 (CONTINUED)											
			6- 2	328	0.0462	1.68	6- 9	2400	4.780	0.1733	
				343	0.0400	1.69	6-10	1200	4.210	0.1755	
				355	0.0	1.69		2400	3.925	0.1774	
				422	0.0444	1.71	6-11	1200	3.640	0.1792	
				435	0.0462	1.72		2400	3.475	0.1809	
				450	0.0800	1.74	6-12	1200	3.310	0.1825	
				518	0.0429	1.76		2400	3.110	0.1840	
				531	0.0462	1.77	6-13	1200	2.910	0.1855	
				542	0.0545	1.78		2400	2.675	0.1868	
				601	0.0316	1.79	6-14	1200	2.440	0.1880	
				611	0.0	1.79		2400	2.035	0.1891	
				623	0.0500	1.80					
				758	0.0758	1.92					
				801	0.0	1.92					
				802	0.0	1.92					
				814	0.0500	1.93					
				827	0.0	1.93					
				835	0.0750	1.94					
				843	0.0750	1.95					
				906	0.0	1.95					
				914	0.0750	1.96					
				936	0.0273	1.97					
				943	0.0	1.97					
				951	0.0	1.97					
				959	0.0	1.97					
				1015	0.0	1.97					
				1026	0.0545	1.98					
				1035	0.0	1.98					
				1101	0.0462	2.00					
				1114	0.0	2.00					
				1131	0.0353	2.01					
				1140	0.0667	2.02					
				1148	0.2250	2.05					
				1150	1.2000	2.09					
				1151	6.6000	2.20					
				1152	2.4000	2.24					
				1154	1.5000	2.29					
				1158	0.3000	2.31					
				1159	1.2000	2.33					
				1207	0.3750	2.38					
				1212	0.2400	2.40					
				1214	0.3000	2.41					
				1219	0.1200	2.42					
				1222	0.2000	2.43					
				1223	0.6000	2.44					
				1224	0.6000	2.45					
				1225	0.6000	2.46					
				1226	3.0000	2.51					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000039638.



EVENT OF MAY 31 - JUNE 14, 1973
CHICKASBA, OKLAHOMA WATERSHED 110 NEAR ANADARKO

CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH

LOCATION: Little Washita River Watershed above U.S. highway 81 bridge South of Chickasha in Grady and Caddo Counties, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SE1/4 sec. 32, T. 6 N., R. 7 W., lat. 34 deg. 57 min. N., long. 97 deg. 57 min. W., 5-1/2 miles South of Chickasha, Okla., at U.S. highway 81 bridge.

AREA: 132990.00 acres 207.80 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	3.31	0.59	5.43	3.11	3.82	5.84	8.50	0.84	7.95	3.25	2.15	0.24	45.03			
	Q	0.169	0.109	0.391	0.292	0.228	0.875	1.042	0.177	0.429	0.310	0.266	0.226	4.514			
STA AV	P	0.96	1.11	1.75	2.81	3.92	2.83	2.34	2.36	4.34	2.72	1.97	0.93	28.06			
	Q	0.078	0.078	0.122	0.160	0.232	0.190	0.120	0.056	0.099	0.122	0.109	0.077	1.482			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1973		7-23	0.044	7-23	0.044	7-23	0.088	7-23	0.261	7-23	0.438	7-22	0.529	7-22	0.595	7-21	0.796
MAXIMUMS FOR PERIOD OF RECORD																	
		5-10	0.056	5-10	0.055	5-10	0.108	7-23	0.261	7-23	0.438	7-22	0.529	7-22	0.595	7-21	0.796
		1964		1964		1964		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 15%; row crop - 1%; alfalfa - 3%; pasture and range - 65%; and miscellaneous - 16%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164; p. 69.15-4 (Topography) and 1965, USDA Misc. Pub. 1166, p. 69.7-21 (Composite). Precipitation Data obtained from a Thiessen weighted average of 36 gages on the watershed. Precipitation records began Oct. 1961; runoff records began April 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.71	0.0	0.0	0.73	0.0	0.0	0.30	0.0	0.0	0.0	0.0
2	0.56	0.0	0.0	0.45	0.0	2.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.63	0.0	0.10	0.05	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.24
4	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.15	0.27	0.0	0.0	0.0
5	0.0	0.0	0.03	0.0	0.01	0.0	0.0	0.0	0.65	0.17	0.0	0.0	0.0
6	0.34	0.0	0.67	0.0	0.48	0.0	0.0	0.0	2.45	0.05	0.04	0.0	0.0
7	0.20	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.02	0.0	0.0
8	0.0	0.0	0.15	0.33	0.0	0.0	0.0	0.0	0.49	0.0	0.02	0.0	0.0
9	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.98	0.0	0.0	0.0	0.65	0.0	0.0	0.01	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.09	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.00	0.61	0.0	0.0	0.0
13	0.0	0.0	0.15	0.27	0.0	0.24	1.06	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.01	0.0	0.03	0.05	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.74	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0
18	0.0	0.04	0.0	0.0	0.0	1.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.44	0.0	0.23	0.0	0.0	0.03	0.0	0.63	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	1.03	0.0	0.0	0.0	0.01	0.0	0.0
21	0.68	0.0	0.0	0.0	0.25	0.0	0.96	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.11	0.0	0.48	1.47	0.0	3.17	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	1.49	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0
24	0.0	0.0	0.56	0.34	0.24	0.0	0.0	0.0	0.0	0.0	1.27	0.0	0.0
25	0.61	0.13	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0
26	0.16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.03	0.03	0.0	0.0	0.0
27	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.05	0.44	0.12	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.14	0.83	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.04	0.0	0.0	0.10	0.0	0.05	0.0	0.0	0.0	0.0	0.0
30	0.0	0.33	0.0	0.0	0.0	0.0	0.74	0.0	0.0	0.0	0.0	0.0	0.0
31	0.13	0.0	0.0	0.0	1.32	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0
TOTAL	3.31	0.59	5.43	3.11	3.82	5.84	8.50	0.84	7.95	3.25	2.15	0.24	
STA AV	0.96	1.11	1.75	2.81	3.92	2.83	2.34	2.36	4.34	2.72	1.97	0.93	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 36 rain gages on the watershed. STA AV based on 13 yr. (1961-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	13.3	25.9	25.2	62.9	33.3	217.1	44.7	71.8	16.7	36.7	31.8	42.3
2	14.0	23.3	58.6	49.2	32.0	2192.3	37.8	59.6	19.1	34.7	30.9	44.3
3	144.3	21.7	31.7	81.8	32.5	436.6	36.7	56.2	16.3	36.6	30.2	51.7
4	60.2	21.5	28.8	50.2	32.7	189.9	35.1	50.3	15.0	100.7	30.2	52.2
5	29.3	21.4	24.7	40.3	33.9	124.8	33.2	46.1	19.1	65.0	30.9	47.3
6	19.0	21.1	93.7	36.8	95.1	89.0	30.2	42.6	121.3	45.2	31.8	43.3
7	14.9	22.8	44.0	34.7	41.6	64.2	27.4	40.4	198.7	34.3	33.4	41.5
8	13.3	26.6	32.2	39.9	21.9	46.6	23.6	37.3	93.9	30.9	35.2	45.3
9	11.7	24.9	29.1	42.4	20.8	39.6	19.1	48.5	44.0	33.2	37.0	45.2
10	10.4	24.6	284.0	40.1	20.4	39.5	28.1	35.1	37.0	35.8	34.6	45.0
11	9.0	25.1	136.2	39.6	17.8	39.4	25.2	34.5	35.2	220.5	33.7	43.9
12	9.0	24.3	55.1	40.2	18.1	38.5	22.7	31.1	35.6	146.1	34.8	40.9
13	10.4	22.6	42.2	42.8	19.3	41.8	44.8	28.7	564.2	151.6	34.2	39.9
14	11.8	22.1	41.2	38.4	20.0	46.2	143.2	28.7	108.6	67.8	33.1	40.9
15	20.7	20.6	34.0	72.2	20.1	41.2	41.7	31.1	52.2	53.7	35.1	39.7
16	54.7	18.5	34.1	167.6	20.0	53.0	32.1	34.1	38.1	53.3	37.4	38.8
17	42.4	19.8	34.3	47.9	19.5	48.1	27.1	32.2	39.0	51.1	36.7	38.8
18	25.8	23.1	33.7	37.4	19.5	161.2	24.6	32.0	38.6	49.4	34.6	39.6
19	19.2	22.9	29.1	101.2	20.0	480.9	23.1	28.7	36.6	45.1	40.6	40.1
20	16.9	21.3	25.8	49.8	20.2	87.5	25.2	26.8	33.1	40.7	117.2	38.6
21	59.6	18.9	32.6	44.3	20.9	49.8	434.3	25.5	32.6	37.7	56.2	40.5
22	55.8	17.9	28.0	70.8	28.7	39.2	167.5	25.1	32.6	34.8	54.0	38.1
23	28.5	20.3	44.7	81.2	303.9	37.8	2927.1	23.4	32.9	34.9	54.0	37.2
24	23.7	19.9	380.7	76.1	61.5	37.8	360.7	20.2	35.2	34.2	186.9	38.4
25	26.7	18.6	191.8	58.8	49.6	37.6	192.5	17.4	38.0	32.9	132.4	38.0
26	62.0	20.4	69.6	46.3	29.1	36.4	126.9	15.3	241.0	34.9	59.2	38.6
27	39.6	20.7	51.0	38.3	21.6	38.4	104.6	13.6	270.8	43.6	50.2	38.8
28	27.1	20.4	51.4	34.1	19.3	43.6	98.9	13.3	70.5	39.4	45.2	39.1
29	23.5		48.8	34.2	17.6	45.9	372.9	13.0	44.2	36.9	41.9	37.2
30	23.5		48.5	34.2	17.7	46.1	202.3	13.9	38.4	35.1	41.5	36.9
31	23.6		118.1		143.1		111.5	14.3		33.4		18.4
MEAN	30.43	21.82	70.43	54.45	41.03	163.00	187.89	31.96	79.95	55.82	49.50	40.67
INCHES	0.169	0.109	0.391	0.292	0.228	0.875	1.042	0.177	0.429	0.310	0.266	0.226
STA AV	0.078	0.078	0.122	0.160	0.232	0.190	0.120	0.056	0.099	0.122	0.109	0.077

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0001790. To convert discharge in inches to AC-FT, multiply by 11,083. STA AV based on 11 yr (1963-73) record period.

1973 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH												
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF JUNE 1 - 8, 1973												
HG 000162			HG 000162									
6- 1	0.0	0.002	6- 1	615	0.0	0.0	6- 1	200	96.400	0.0		
				616	2.4000	0.04		430	90.300	0.0017		
				617	1.8000	0.07		900	70.700	0.0044		
				618	2.4000	0.11		1030	76.600	0.0053		
				621	1.4000	0.18		1200	124.400	0.0064		
WATERSHED CONDITIONS:				622	0.6000	0.19		1241	182.800	0.0072		
From a revised 1971 survey;				625	0.2000	0.20		1330	238.500	0.0084		
sowed crop - 15%; row crop -				628	0.0	0.20		1430	267.698	0.0103		
1%; alfalfa - 3%; pasture				634	0.1000	0.21		1536	342.000	0.0128		
and range - 65%; miscel-				640	0.0	0.21		1630	415.198	0.0154		
laneous - 16%.				653	0.0462	0.22		1706	451.898	0.0173		
				659	0.0	0.22		1723	464.698	0.0183		
				726	0.0	0.22		1811	463.698	0.0210		
				732	0.1000	0.23		1923	443.800	0.0251		
				734	0.0	0.23		2130	360.898	0.0315		
				810	0.0	0.23		2400	258.198	0.0372		
				832	0.0	0.23		106	215.700	0.0392		
				838	0.1000	0.24		130	266.198	0.0399		
				839	0.0	0.24		153	369.600	0.0408		
				841	0.0	0.24		200	490.000	0.0412		
				843	0.3000	0.25		206	714.998	0.0416		
				846	1.0000	0.30		211	922.698	0.0421		
				847	3.0000	0.35		218	1033.300	0.0430		
				850	1.8000	0.44		223	1151.698	0.0437		
				905	2.8400	1.15		236	1293.398	0.0456		
				908	0.0	1.15		253	1477.398	0.0486		
				914	0.1000	1.16		311	1658.099	0.0521		
				931	0.1059	1.19		323	1802.499	0.0546		
				940	0.0667	1.20		348	1979.499	0.0605		
				949	0.0667	1.21		411	2069.800	0.0663		

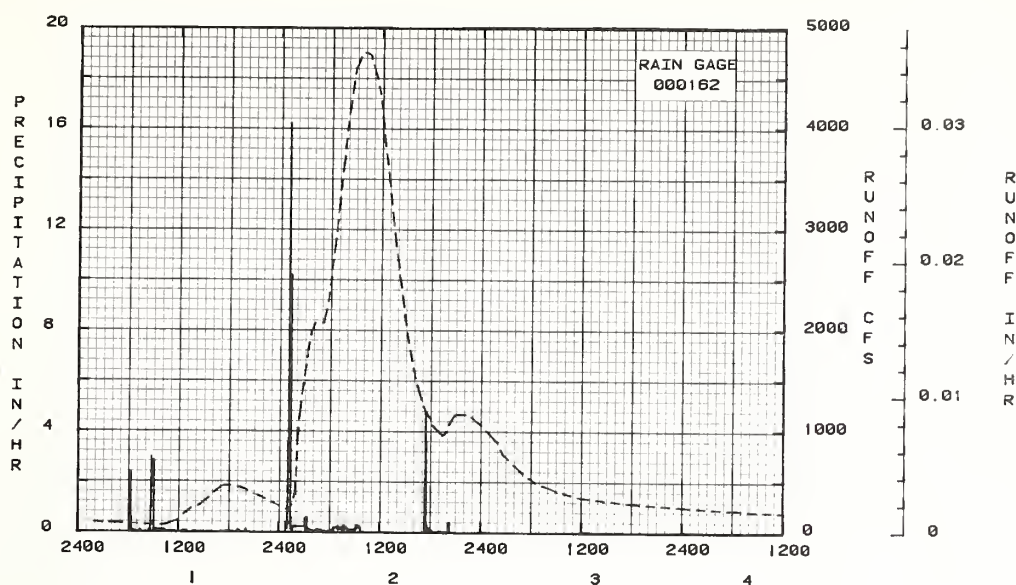
NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007457.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 522 NEAR MINNEKAH		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day
								Rate (cfs)
								Acc. (inches)
EVENT OF JUNE 1 - 8, 1973 (CONTINUED)								
6- 1			958		0.0667	1.22	6- 2	511
			1016		0.1000	1.25		536
			1025		0.0667	1.26		553
			1035		0.0	1.26		606
			1053		0.0333	1.27		618
			1116		0.0	1.27		636
			1140		0.0250	1.28		648
			1225		0.0	1.28		700
			1237		0.0500	1.29		711
			1247		0.0	1.29		723
			1258		0.0545	1.30		736
			1345		0.0	1.30		741
			1408		0.0261	1.31		753
			1419		0.0	1.31		811
			1427		0.0	1.31		830
			1435		0.0	1.31		853
			1456		0.0286	1.32		923
			1521		0.0	1.32		953
			1536		0.0	1.32		1023
			1602		0.0231	1.33		1036
6- 2			1701		0.0	1.33		1041
			1712		0.0	1.33		1053
			1733		0.0286	1.34		1123
			1746		0.0	1.34		1153
			1756		0.0600	1.35		1211
			1808		0.0	1.35		1223
			1828		0.0300	1.36		1241
			1846		0.0	1.36		1300
			1907		0.0	1.36		1311
			1916		0.0667	1.37		1323
			2002		0.0	1.37		1341
			2007		0.1200	1.38		1400
			45		0.0	1.38		1418
			50		0.0	1.38		1436
			53		0.4000	1.40		1453
			56		0.4000	1.42		1511
			59		0.2000	1.43		1536
			101		0.3000	1.44		1600
			104		1.2000	1.50		1623
			105		1.8000	1.53		1653
6- 3			107		3.6000	1.65		1723
			108		2.4000	1.69		1753
			109		9.6000	1.85		1823
			110		16.2000	2.12		1923
			111		2.4000	2.16		1936
			112		8.4000	2.30		1953
			113		3.0000	2.35		2023
			115		6.3000	2.56		2053
			117		3.3000	2.67		2106
			119		2.7000	2.76		2211
			121		2.7000	2.85		2253
			122		10.2000	3.02		2400
			123		4.8000	3.10		100
			125		0.3000	3.11		200
			126		0.6000	3.12		236
			131		0.1200	3.13		400
			134		0.2000	3.14		500
			138		0.0	3.14		630
			141		0.2000	3.15		900
			151		0.2400	3.19		1200
6- 4			308		0.2338	3.49		1800
			316		0.5250	3.56		2400
			319		0.0	3.56		600
			320		0.6000	3.57		1200
			328		0.0	3.57		1800
			333		0.1200	3.58		2100
			339		0.1000	3.59		2400
			352		0.0462	3.60		600
			359		0.0	3.60		1200
			421		0.0545	3.62		1800
			431		0.0600	3.63		2400
			441		0.1200	3.65		1200
			449		0.0750	3.66		2400
			506		0.0706	3.68		1200
			520		0.0	3.68		2400
								54.150
								0.5914
								0.5862
								0.5800
								0.5726
								0.5640

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00007457.

1973			SELECTED RUNOFF EVENT			CRICKASRA, OKLAHOMA			WATERSHED 522 NRAR MINNEKAB		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 1 - 8, 1973 (CONTINUED)											
6- 2			540		0.0300	3.69	6- 8	1200	45.100	0.5959	
			550		0.0	3.69		2400	41.900	0.5998	
			605		0.0400	3.70					
			623		0.0667	3.72					
			630		0.0857	3.73					
			639		0.2000	3.76					
			656		0.1765	3.81					
			704		0.2250	3.84					
			711		0.0857	3.85					
			721		0.1800	3.88					
			726		0.1200	3.89					
			729		0.2000	3.90					
			733		0.1500	3.91					
			735		0.0	3.91					
			737		0.0	3.91					
			741		0.0	3.91					
			744		0.2000	3.92					
			746		0.3000	3.93					
			749		0.0	3.93					
			752		0.2000	3.94					
			801		0.2000	3.97					
			805		0.1500	3.98					
			814		0.1333	4.00					
			828		0.0429	4.01					
			835		0.0857	4.02					
			844		0.0	4.02					
			858		0.0857	4.04					
			906		0.0750	4.05					
			914		0.1500	4.07					
			925		0.2727	4.12					
			930		0.2400	4.14					
			935		0.2400	4.16					
			943		0.1500	4.18					
			947		0.0	4.18					
			949		0.0	4.18					
			1720		0.0	4.18					
			1722		0.6000	4.20					
			1724		0.60	4.22					
			1725		1.8000	4.25					
			1726		3.0000	4.30					
			1727		4.7968	4.38					
			1728		1.2000	4.40					
			1729		3.6000	4.46					
			1736		0.2571	4.49					
			1743		0.0	4.49					
			1750		0.1714	4.51					
			1755		0.0	4.51					
			1800		0.1200	4.52					
			1813		0.0462	4.53					
			1901		0.0	4.53					
			1918		0.0353	4.54					
			1926		0.0	4.54					
			1933		0.0	4.54					
			1949		0.0	4.54					
			2005		0.0	4.54					
			2011		0.0	4.54					
			2013		0.3000	4.55					
			2019		0.4000	4.59					

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007457.



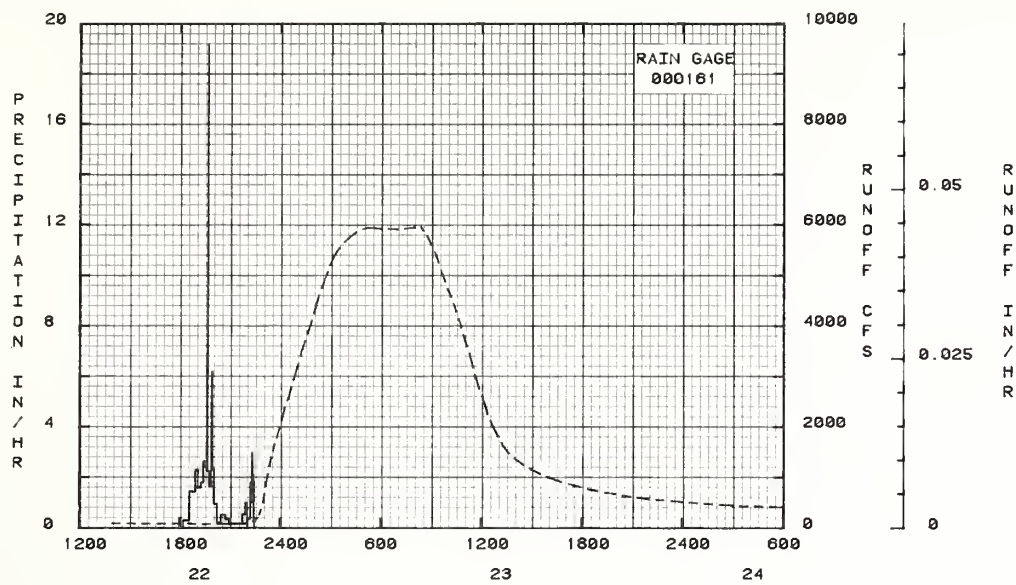
EVENT OF JUNE 1 - 8, 1973
CRICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH

1973 SELECTED RUNOFF EVENT			CRICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 22 - 27, 1973										
RG 000161			BG 000161							
7-22	0.0	0.004	7-22	315	0.0	0.0	7-22	300	139.700	0.0
				331	0.3750	0.10		400	130.100	0.0010
				351	0.1500	0.15		500	128.900	0.0020
				408	0.1059	0.18		730	137.100	0.0045
				423	0.0800	0.20		900	119.400	0.0059
WATERSHED CONDITIONS: From a revised 1971 survey; sowed crop - 15%; row crop - 1%; alfalfa - 3%; pasture and range - 65%; miscel- laneous - 16%.				430	0.0	0.20		1000	118.100	0.0068
				1815	0.0	0.20		1400	94.000	0.0099
				1836	0.3143	0.31		2100	74.100	0.0143
				1845	1.4667	0.53		2200	92.200	0.0149
				1858	1.4308	0.84		2230	141.400	0.0154
				1906	2.3250	1.15		2241	200.500	0.0156
				1917	1.5818	1.44		2248	267.000	0.0158
				1927	1.8000	1.74		2253	370.000	0.0160
				1932	2.6400	1.96		2300	506.300	0.0164
				1938	2.4000	2.20		2306	671.999	0.0168
			1940	6.6016	2.42		2311	877.800	0.0173	
			1941	19.1871	2.74		2318	1070.698	0.0181	
			1948	2.2286	3.00		2323	1240.799	0.0189	
			1955	1.6286	3.19		2330	1400.598	0.0200	
			1958	6.2000	3.50		2336	1533.398	0.0211	
			2004	2.3000	3.73		2341	1663.299	0.0221	
			2014	0.9600	3.89		2348	1781.898	0.0236	
			2030	0.1875	3.94		2400	1982.099	0.0264	
			2046	0.5250	4.08	7-23	11	2220.999	0.0293	
			2059	0.3231	4.15		18	2377.099	0.0313	
			2120	0.1429	4.20		30	2571.898	0.0350	
			2147	0.1778	4.28		41	2784.798	0.0386	
			2158	0.5455	4.38		53	3030.499	0.0430	
			2201	1.0000	4.43		106	3260.499	0.0481	
			2204	0.8000	4.47		118	3525.499	0.0531	

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00007457.

1973	SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 522 NEAR MINNEKAH			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JULY 22 - 27, 1973 (CONTINUED)										
7-22			2205		0.0	4.47	7-23	130	3709.198	0.0586
			2213		0.3750	4.52		141	3887.299	0.0637
			2216		0.4000	4.54		153	4106.891	0.0697
			2217		1.8000	4.57		206	4351.684	0.0765
			2220		1.0000	4.62		218	4609.484	0.0832
			2221		3.0000	4.67		230	4792.184	0.0903
			2222		3.0000	4.72		248	5069.586	0.1012
			2223		2.3984	4.76		306	5322.484	0.1128
			2224		1.2000	4.78		330	5546.785	0.1292
			2226		2.1000	4.85		400	5723.883	0.1502
7-23			2228		1.8000	4.91		430	5857.785	0.1718
			2230		0.3000	4.92		511	5947.883	0.2017
								600	5911.883	0.2379
								700	5908.484	0.2820
								800	5953.586	0.3262
								823	5951.086	0.3432
								830	5886.184	0.3484
								848	5730.586	0.3613
								918	5380.684	0.3820
								941	5008.586	0.3968
7-24								1000	4700.184	0.4084
								1011	4563.480	0.4146
								1030	4269.984	0.4252
								1048	3960.398	0.4343
								1100	3730.799	0.4401
								1118	3437.898	0.4480
								1130	3166.299	0.4530
								1141	2962.198	0.4572
								1153	2746.799	0.4615
								1211	2482.898	0.4673
7-25								1223	2254.499	0.4709
								1241	2023.898	0.4756
								1300	1811.099	0.4802
								1318	1621.499	0.4840
								1341	1472.500	0.4884
								1406	1344.100	0.4928
								1430	1247.698	0.4967
								1500	1145.898	0.5011
								1530	1065.599	0.5053
								1600	992.898	0.5091
7-26								1648	907.600	0.5147
								1730	837.500	0.5193
								1830	754.600	0.5253
								2000	660.198	0.5332
								2200	567.698	0.5423
								2400	505.898	0.5503
								300	434.100	0.5609
								600	403.698	0.5702
								900	373.898	0.5789
								1500	342.999	0.5950
7-27								1800	320.100	0.6024
								2100	278.198	0.6091
								2400	242.000	0.6149
								400	215.500	0.6217
								1000	196.400	0.6309
								1500	187.000	0.6381
								1800	164.400	0.6420
								2000	174.800	0.6445
								2400	146.900	0.6493
								1200	123.500	0.6614

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000007457.



EVENT OF JULY 22 - 27, 1973
CHICKASHA, OKLAHOMA WATERSHED 522 NEAR MINNEKAH

CHICKASAW, OKLAHOMA WATERSHED 512 AT TABLER

LOCATION: East Hitter Creek Watershed above U.S. Highway 62 bridge at Tabler, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--SW1/4 sec. 27, T. 7 N., R. 6 W., lat. 35 deg. 05 min. N., long 97 deg. 50 min. W., at Tabler, Okla., at U.S. highway 62 bridge.

AREA: 22530.00 acres 35.20 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASAW, OKLAHOMA				WATERSHED 512 AT TABLER									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	3.53	0.61	6.12	2.57	7.44	6.20	3.99	1.54	7.70	3.19	3.49	0.12	46.50					
	Q	0.319	0.239	1.289	0.759	2.002	2.562	0.453	0.222	0.563	0.403	0.820	0.328	9.960					
STA AV	P	0.99	1.18	1.91	2.79	3.89	3.40	2.34	3.13	4.34	2.69	2.13	1.03	29.82					
	Q	0.118	0.115	0.252	0.323	0.477	0.443	0.105	0.167	0.223	0.211	0.216	0.129	2.779					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		5-24	0.203	5-24	0.200	5-24	0.392	5-24	0.888	5-24	1.013	5-24	1.090	5-24	1.147	5-31	2.221		
MAXIMUMS FOR PERIOD OF RECORD																			
		5-24	0.203	5-24	0.200	5-24	0.392	5-24	0.888	5-24	1.013	5-24	1.090	5-24	1.147	5-31	2.221		
		1973		1973		1973		1973		1973		1973		1973		1973			

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 8%; alfalfa - 3%; pasture and range - 81% and miscellaneous - 8%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watershed in the United States, 1965, USDA Misc. Pnb. 1216, p. 69.16-8 (Topography) and p. 69.7-21 (Composite). Precipitation records began Oct. 1961; runoff records began Aug. 1963. STA AV (P) values are a Thiessen weighted average of 10 gages for 1961-66 and 31 gages for 1967-73 on the watershed. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973		DAILY PRECIPITATION (inches)					CHICKASAW, OKLAHOMA WATERSHED 512 AT TABLER							
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1	0.0	0.0	0.11	0.0	0.0	0.64	0.0	0.0	0.42	0.0	0.0	0.0	
	2	0.39	0.0	0.0	0.39	0.0	1.79	0.0	0.0	0.0	0.0	0.0	0.0	
	3	0.77	0.0	0.18	0.04	0.0	0.0	0.0	0.0	0.71	0.27	0.0	0.12	
	4	0.0	0.0	0.0	0.0	0.0	1.49	0.0	0.0	0.20	0.39	0.0	0.0	
	5	0.0	0.0	0.03	0.0	0.02	0.10	0.0	0.0	0.64	0.21	0.0	0.0	
	6	0.33	0.0	1.25	0.0	0.72	0.0	0.0	0.0	1.49	0.09	0.04	0.0	
	7	0.18	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.01	0.0	
	8	0.0	0.0	0.14	0.38	0.0	0.0	0.0	0.0	0.23	0.0	0.03	0.0	
	9	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.0	0.0	
	10	0.0	0.0	1.00	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0	0.0	
	11	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.96	0.0	0.0	
	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.48	0.0	0.0	
	13	0.0	0.0	0.17	0.14	0.0	0.10	0.54	0.0	0.0	0.0	0.0	0.0	
	14	0.0	0.0	0.0	0.04	0.0	0.13	0.02	0.0	0.0	0.0	0.0	0.0	
	15	0.0	0.0	0.0	0.73	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	
	16	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	
	17	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	
	18	0.0	0.03	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0	
	19	0.0	0.0	0.0	0.54	0.0	0.39	0.0	0.0	0.0	0.0	2.00	0.0	
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.07	0.0	
	21	0.82	0.0	0.0	0.0	0.05	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
	22	0.0	0.15	0.01	0.29	1.41	0.0	1.38	0.0	0.13	0.0	0.0	0.0	
	23	0.0	0.0	1.77	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.01	0.0	
	24	0.0	0.0	1.03	0.02	2.94	0.0	0.0	0.0	0.0	0.0	1.25	0.0	
	25	0.54	0.13	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	26	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.70	0.49	0.0	0.0	
	27	0.03	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.55	0.30	0.08	0.0	
	28	0.0	0.0	0.0	0.0	0.0	0.18	0.08	0.0	0.0	0.0	0.0	0.0	
	29	0.0	0.0	0.08	0.0	0.0	0.13	0.0	0.01	0.0	0.0	0.0	0.0	
	30	0.0	0.18	0.0	0.0	0.66	0.0	0.85	0.0	0.0	0.0	0.0	0.0	
	31	0.21	0.0	0.0	0.0	1.49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL		3.53	0.61	6.12	2.57	7.44	6.20	3.99	1.54	7.70	3.19	3.49	0.12	
STA AV		0.99	1.18	1.91	2.79	3.89	3.40	2.34	3.13	4.34	2.69	2.13	1.03	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. STA AV values are a Thiessen weighted average of 10 gages for 1961-66 and 31 gages for 1967-73 on the watershed. STA AV based on 13 yr for total period of record (1961-73).

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3.26	11.55	7.89	28.24	15.77	140.77	13.52	10.01	3.82	8.63	8.77	14.00
2	3.26	9.84	8.41	28.28	14.39	589.93	11.99	8.22	4.49	8.21	8.55	15.88
3	24.40	8.85	8.44	31.26	14.38	94.76	11.20	7.54	3.82	6.81	8.49	14.07
4	10.00	8.71	8.94	24.59	14.42	397.20	11.10	7.29	75.15	14.77	8.31	12.91
5	5.87	8.52	8.23	22.00	14.42	481.51	11.07	7.10	12.64	11.09	8.13	11.69
6	3.04	8.39	153.38	20.65	45.06	74.81	10.79	6.89	41.76	11.27	8.15	10.91
7	2.27	8.74	23.00	20.90	21.79	48.63	10.14	6.52	18.40	10.18	8.47	10.76
8	2.14	8.96	15.62	23.35	14.47	38.99	9.70	5.99	10.39	9.16	8.49	11.33
9	2.13	8.08	13.45	22.34	13.08	33.91	9.67	32.68	8.19	8.21	8.34	10.45
10	2.13	8.10	112.61	20.56	12.39	30.72	9.94	8.08	6.73	7.82	8.34	10.00
11	2.11	8.26	30.88	19.45	11.65	28.14	10.39	6.49	6.59	45.27	8.32	10.45
12	1.97	8.13	19.01	19.09	11.13	27.06	9.70	5.86	7.28	26.75	7.45	11.30
13	1.95	8.02	17.87	19.18	10.88	26.62	10.70	5.52	80.38	20.48	8.29	10.48
14	1.98	7.52	16.43	18.43	10.85	26.73	20.04	5.24	12.90	11.78	8.05	10.08
15	3.22	7.13	14.07	44.97	10.85	26.06	10.67	8.13	9.47	9.89	7.37	9.67
16	12.32	6.93	13.01	40.09	10.85	31.23	9.65	13.88	9.15	9.58	7.12	9.41
17	11.39	7.01	12.52	22.68	10.82	33.46	8.80	6.26	11.94	9.18	7.12	9.27
18	7.56	7.64	12.66	21.99	10.63	45.94	8.26	5.41	10.79	8.80	7.27	9.47
19	6.19	7.97	12.59	58.96	10.51	65.96	7.54	5.05	8.81	8.71	144.07	8.65
20	6.01	7.52	11.92	23.86	9.91	25.35	7.30	4.89	8.42	8.55	160.98	7.56
21	50.22	7.13	11.46	20.66	9.30	20.37	20.19	4.83	7.90	8.49	30.32	8.92
22	14.33	7.11	11.65	21.56	9.98	17.76	15.77	4.58	8.31	8.26	20.65	9.21
23	9.11	8.08	46.48	22.21	94.99	16.30	76.78	4.31	7.74	7.82	16.32	9.35
24	8.08	7.92	259.64	19.65	869.72	15.14	14.12	4.14	7.22	8.02	116.47	9.18
25	9.09	7.72	178.62	18.43	195.42	14.72	9.91	3.92	6.48	7.92	51.51	8.99
26	40.43	7.64	43.03	18.17	46.81	14.38	9.16	3.89	46.02	8.33	24.98	8.90
27	16.36	7.34	33.26	17.36	28.95	13.98	8.44	3.86	61.39	36.01	19.60	8.55
28	11.33	7.36	30.85	16.94	21.47	14.54	8.55	3.65	16.64	12.49	16.79	8.31
29	9.54		27.64	16.61	15.89	15.65	8.96	3.51	10.80	10.07	15.34	8.15
30	9.97		27.84	16.29	13.93	14.95	16.65	3.38	9.62	9.44	14.20	8.31
31	10.19		28.29		300.70		27.88	3.35		9.15		4.23
MEAN	9.736	8.078	39.345	23.959	61.141	80.850	13.825	6.789	17.775	12.295	25.875	10.014
INCHES	0.319	0.239	1.289	0.759	2.002	2.562	0.453	0.222	0.563	0.403	0.820	0.328
STA AV	0.118	0.115	0.252	0.323	0.477	0.443	0.105	0.167	0.223	0.211	0.216	0.129

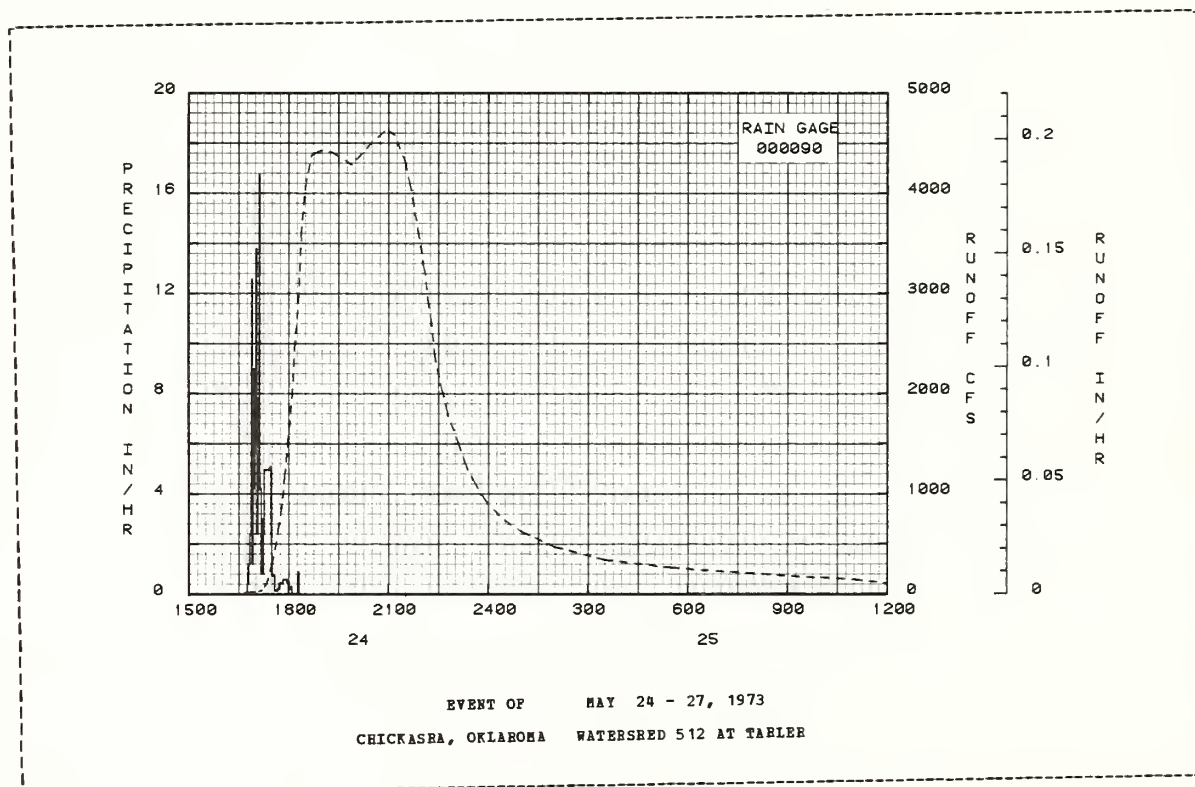
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.001056. To convert discharge in inches to AC-FT, multiply by 1.878. STA AV based on 11 yr (1963-73) record period.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 24 - 27, 1973											
BG 000090			BG 000090								
5-24	0.0	0.011	5-24	1645	0.0	0.0	5-24	1641	14.120	0.0	
				1648	0.4000	0.02		1700	21.220	0.0003	
				1649	1.2000	0.04		1706	29.750	0.0004	
				1650	1.2000	0.06		1711	40.170	0.0005	
				1652	2.4000	0.14		1718	79.800	0.0008	
WATERSHED CONDITIONS: From a revised 1971 survey; sowed crop - 8%; alfalfa - 3%; pasture and range - 81%; and miscellaneous - 8%.				1653	8.9940	0.29		1723	157.290	0.0012	
				1654	12.6031	0.50		1730	299.790	0.0024	
				1656	1.2000	0.54		1736	450.168	0.0041	
				1657	4.8012	0.62		1741	640.918	0.0061	
				1658	4.2010	0.69		1748	888.780	0.0100	
				1659	9.0022	0.84		1753	1172.418	0.0138	
				1701	5.6988	1.03		1800	1582.269	0.0209	
				1702	13.8034	1.26		1806	1976.668	0.0287	
				1703	7.8019	1.39		1811	2459.137	0.0368	
				1704	2.3984	1.43		1818	3006.328	0.0508	
			1705	2.4000	1.47		1823	3664.359	0.0631		
			1707	4.2010	1.61		1830	4069.397	0.0830		
			1708	16.7888	1.89		1841	4382.785	0.1170		
			1709	4.8012	1.97		1900	4431.496	0.1785		
			1710	4.2010	2.04		1918	4402.223	0.2368		
			1713	0.8000	2.08		1953	4286.336	0.3484		
			1714	3.0000	2.13		2030	4510.105	0.4678		
			1716	2.4000	2.21		2053	4619.555	0.5448		
			1726	4.9800	3.04		2100	4619.555	0.5685		
			1728	5.0989	3.21		2111	4579.562	0.6056		
			1729	2.4000	3.25		2130	4305.523	0.6676		
			1730	1.2000	3.27		2141	4023.127	0.7011		
			1735	0.7200	3.33		2153	3620.927	0.7348		
			1740	0.1200	3.34		2206	3187.507	0.7672		
			1743	0.2000	3.35		2211	2929.527	0.7785		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00004402.

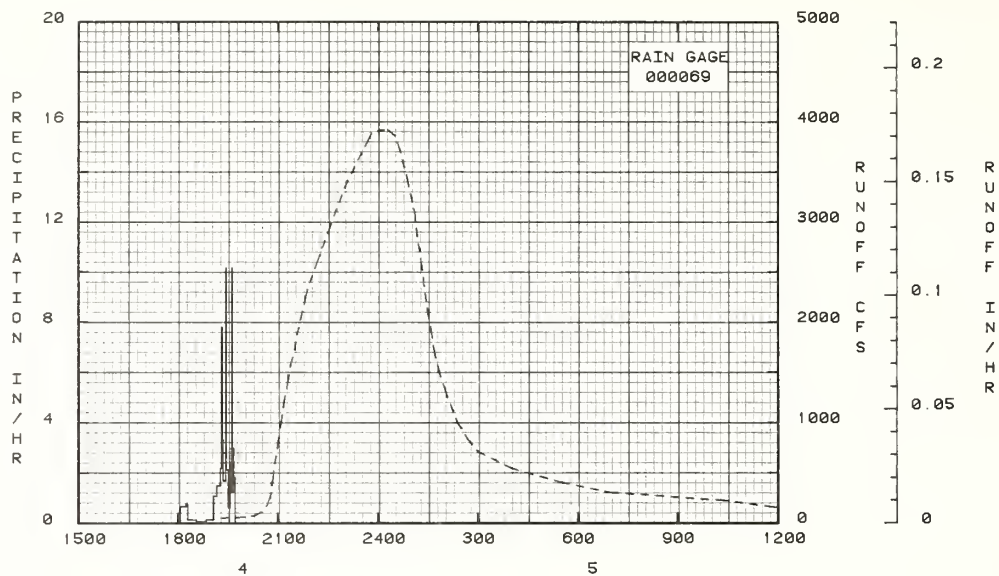
1973 SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA WATERSHED 512 AT TABLER						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF MAY 24 - 27, 1973 (CONTINUED)									
5-24				1750	0.4286	3.40	5-24	2218	2670.089
				1753	0.6000	3.43		2223	2391.127
				1757	0.6000	3.47		2236	2037.358
				1801	0.4500	3.50		2248	1772.877
				1804	0.2000	3.51		2306	1504.548
				1806	0.3000	3.52		2323	1239.418
				1817	0.0	3.52		2341	1053.290
				1819	0.9000	3.55		2400	888.780
							5-25	30	729.388
								100	618.320
								200	466.030
								330	335.448
								530	257.330
								800	196.390
								1100	137.870
								1400	100.660
								1800	78.920
								2400	63.410
							5-26	600	52.630
								1200	46.140
								1800	40.170
								2400	33.170
							5-27	1200	28.810
								2400	25.015

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004402.



1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 4 - 7, 1973										
RG 000069			RG 000069							
6- 4	0.0	0.044	6- 4	1804	0.0	0.0	6- 4	1918	48.030	0.0
				1814	0.6600	0.11		2000	58.950	0.0016
				1818	0.7500	0.16		2018	75.480	0.0025
				1833	0.1200	0.19		2030	109.010	0.0034
				1851	0.0333	0.20		2041	178.340	0.0045
WATERSHED CONDITIONS: From a revised 1971 survey; sowed crop - 8%; alfalfa - 3%; pasture and range - 81%; and miscellaneous - 8%.				1905	0.1286	0.23		2048	299.790	0.0057
				1910	1.0800	0.32		2053	518.550	0.0072
				1916	1.5000	0.47		2100	798.658	0.0106
				1919	2.2000	0.58		2106	1004.570	0.0146
				1920	7.8019	0.71		2111	1194.500	0.0186
				1922	3.3000	0.82		2118	1404.560	0.0253
				1926	1.6500	0.93		2123	1582.269	0.0308
				1927	10.1932	1.10		2130	1728.157	0.0393
				1929	2.1000	1.17		2141	2037.358	0.0545
				1931	2.1000	1.24		2153	2324.268	0.0737
				1934	0.6000	1.27		2211	2605.708	0.1062
				1935	1.2000	1.29		2236	2990.869	0.1575
				1936	2.4000	1.33		2300	3350.279	0.2134
				1937	3.0000	1.38		2330	3690.568	0.2909
				1938	10.1932	1.55		2348	3886.229	0.3409
				1940	1.2000	1.59		2400	3913.377	0.3752
				1941	2.9980	1.64	6- 5	11	3922.448	0.4068
				1942	1.8000	1.67		18	3922.448	0.4270
				1943	1.8000	1.70		30	3859.188	0.4613
								41	3690.568	0.4917
								53	3425.117	0.5230
								106	3084.318	0.5541
								111	2853.927	0.5649
								118	2591.529	0.5789
								123	2357.559	0.5880
								130	2099.158	0.5995
								136	1917.079	0.6083
								141	1717.089	0.6150
								153	1454.038	0.6289
								206	1248.520	0.6418
								223	1004.570	0.6559
								241	836.719	0.6680
								300	708.330	0.6788
								400	541.719	0.7063
								530	397.370	0.7373
								700	299.790	0.7603
								1030	213.920	0.7999
								1500	149.330	0.8359
								1700	137.870	0.8485
								2000	114.440	0.8652
							6- 6	2400	98.630	0.8839
								600	83.370	0.9080
								1200	73.790	0.9287
								1730	68.880	0.9460
								1930	59.680	0.9516
								2030	56.790	0.9542
							6- 7	2400	56.790	0.9630
								1200	47.390	0.9905
								2400	42.935	1.0143

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004402.



EVENT OF JUNE 4 - 7, 1973
CHICKASHA, OKLAHOMA WATERSHED 512 AT TABLER

CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER

LOCATION: Winter Creek Watershed above county farm to market road bridge North of Alex in Grady County, Okla., tributary to Washita River; Red River Basin. GAGING STATION--NE1/4 sec. 18, T. 6 N., R. 5 W., lat. 35 deg. 00 min., long. 97 deg. 46 min., 5 miles North and 1 mile East of Alex, Okla., about 1,000 feet downstream from County section line farm to market road bridge over Winter Creek.

AREA: 21310.00 acres 33.30 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	3.18	0.56	5.50	3.00	6.66	5.62	3.04	1.47	7.15	3.15	3.46	0.17	42.96			
	Q	0.335	0.242	0.871	0.734	1.900	1.678	0.291	0.178	0.439	0.391	0.938	0.355	8.353			
STA AV	P	1.16	1.17	1.73	2.79	4.10	3.10	2.33	2.74	4.53	2.72	2.14	1.10	29.62			
	Q	0.161	0.162	0.231	0.282	0.570	0.346	0.135	0.119	0.317	0.265	0.311	0.196	3.094			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1973		5-24	0.199	5-24	0.188	5-24	0.322	5-24	0.486	5-24	0.568	5-24	0.701	5-24	0.930	5-24	1.603
MAXIMUMS FOR PERIOD OF RECORD																	
		5-10	0.207	5-24	0.188	5-24	0.322	5-24	0.486	9-22	0.649	9-22	0.791	9-22	0.957	5-24	1.603
		1964		1973		1973		1973		1970		1970		1970		1973	

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 9%; row crop - 1%; alfalfa - 2%; pasture and range - 77% and miscellaneous - 11%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.17-8 (Topography) and p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.13	0.0	0.0	0.49	0.0	0.0	0.42	0.0	0.0	0.0		
2	0.37	0.0	0.0	0.50	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.77	0.0	0.26	0.05	0.0	0.0	0.0	0.0	0.03	0.22	0.0	0.17		
4	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.28	0.29	0.0	0.0		
5	0.0	0.0	0.01	0.0	0.01	1.52	0.0	0.0	0.67	0.23	0.0	0.0		
6	0.29	0.0	0.73	0.0	0.68	0.0	0.0	0.0	1.56	0.11	0.03	0.0		
7	0.19	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.01	0.0		
8	0.0	0.0	0.14	0.33	0.0	0.0	0.0	0.0	0.18	0.0	0.02	0.0		
9	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.0		
10	0.0	0.0	0.95	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.82	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.98	0.55	0.0	0.0		
13	0.0	0.0	0.17	0.14	0.0	0.07	0.07	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.08	0.0	0.61	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	0.0		
18	0.0	0.04	0.0	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.48	0.0	0.30	0.0	0.0	0.0	0.0	1.79	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.07	0.0		
21	0.60	0.0	0.0	0.0	0.04	0.0	0.45	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.09	0.02	0.64	1.40	0.0	0.93	0.0	0.18	0.0	0.0	0.0		
23	0.0	0.0	1.89	0.0	0.14	0.0	0.0	0.01	0.0	0.0	0.08	0.0		
24	0.0	0.0	0.85	0.03	2.53	0.0	0.0	0.0	0.04	0.0	1.39	0.0		
25	0.51	0.12	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
26	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.70	0.19	0.0	0.0		
27	0.03	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.60	0.74	0.07	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.19	0.25	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.06	0.0	0.0	0.13	0.0	0.01	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.18	0.0	0.49	0.0	0.65	0.0	0.0	0.0	0.0	0.0		
31	0.19	0.0	0.0	0.0	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.18	0.56	5.50	3.00	6.66	5.62	3.04	1.47	7.15	3.15	3.46	0.17		
STA AV	1.16	1.17	1.73	2.79	4.10	3.10	2.33	2.74	4.53	2.72	2.14	1.10		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 9 rain gages on the watershed. STA AV based on 13 yr (1961-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CRICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLE												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	5.71	10.13	7.87	20.99	13.08	109.86	11.03	7.67	3.62	11.73	8.76	15.85
2	5.64	9.21	8.16	23.74	11.64	308.60	9.53	6.87	3.83	10.38	7.94	14.10
3	28.21	9.01	8.53	31.39	11.71	144.79	9.01	6.45	3.42	9.96	7.63	13.21
4	11.89	8.75	9.10	17.87	12.03	90.35	8.45	5.70	4.00	12.33	7.56	12.41
5	9.07	8.41	8.31	16.10	12.08	85.46	7.87	5.50	5.67	10.61	7.32	11.45
6	5.30	8.05	16.38	14.97	28.99	64.32	7.32	4.98	24.98	11.28	7.09	11.05
7	4.72	8.60	15.83	15.02	17.91	51.50	6.80	4.72	12.01	10.10	7.09	11.01
8	4.72	8.52	14.20	16.21	13.93	42.26	6.35	4.55	10.31	9.09	7.29	10.88
9	4.72	8.60	13.65	15.66	12.78	35.31	6.45	16.11	8.84	8.35	7.32	10.13
10	4.72	7.94	40.58	14.92	11.72	27.66	7.57	7.92	7.81	7.04	7.32	10.04
11	4.72	7.63	25.25	14.81	10.63	20.93	8.33	6.59	6.58	19.38	7.29	10.29
12	4.67	7.59	18.83	14.71	9.48	18.03	6.76	5.65	8.65	23.82	7.09	10.33
13	4.37	7.59	15.37	14.25	9.09	16.93	6.11	5.17	40.39	18.39	7.13	10.33
14	4.32	7.46	13.23	15.07	9.05	38.26	6.02	4.98	15.04	14.14	7.49	10.29
15	5.24	6.67	11.42	34.18	8.98	28.36	5.85	5.45	11.62	11.82	7.29	10.04
16	10.57	6.54	10.09	37.79	8.45	28.03	5.79	7.24	10.13	10.34	6.96	10.00
17	10.13	6.67	9.44	26.38	7.94	26.86	5.58	5.78	9.57	9.17	7.49	10.04
18	9.25	7.46	9.36	21.08	7.84	82.38	5.33	4.98	8.46	8.79	7.59	9.88
19	8.06	7.56	9.28	34.62	7.56	68.23	4.96	4.67	7.40	8.71	83.30	7.68
20	7.87	7.32	8.72	22.05	7.16	41.65	5.99	4.16	6.80	8.41	106.66	8.65
21	24.38	7.06	7.98	20.21	7.22	32.20	20.03	3.81	6.48	7.87	54.93	9.60
22	13.23	6.86	8.09	62.48	8.74	24.47	8.03	3.70	7.06	7.39	41.31	9.92
23	11.12	6.99	43.99	34.67	64.04	19.52	23.14	3.29	6.45	7.29	31.85	9.76
24	9.97	6.80	101.97	25.37	465.52	16.29	11.34	3.09	6.51	7.06	149.84	9.92
25	11.57	6.70	100.30	18.99	246.18	14.51	9.16	2.95	6.48	6.83	76.44	9.72
26	19.74	7.46	60.60	16.54	193.74	13.56	7.64	2.93	41.92	6.80	52.54	9.64
27	13.46	7.59	50.45	14.97	115.09	12.69	6.77	2.91	49.88	26.83	39.28	9.40
28	11.81	7.63	42.80	14.40	74.68	13.21	7.16	2.82	26.84	13.42	29.18	9.36
29	10.67		38.93	14.04	61.61	13.75	7.35	2.91	18.80	11.81	22.37	9.36
30	9.84		27.42	13.89	48.15	12.74	9.98	2.88	13.67	10.93	18.83	9.21
31	10.00		23.81		183.79		9.07	2.70		9.73		4.23
MEAN	9.668	7.744	25.159	21.913	54.865	50.089	8.412	5.133	13.107	11.284	28.006	10.252
INCRS	0.335	0.242	0.871	0.734	1.900	1.678	0.291	0.178	0.439	0.391	0.938	0.355
STA AV	0.161	0.162	0.231	0.282	0.570	0.346	0.135	0.119	0.317	0.265	0.311	0.196

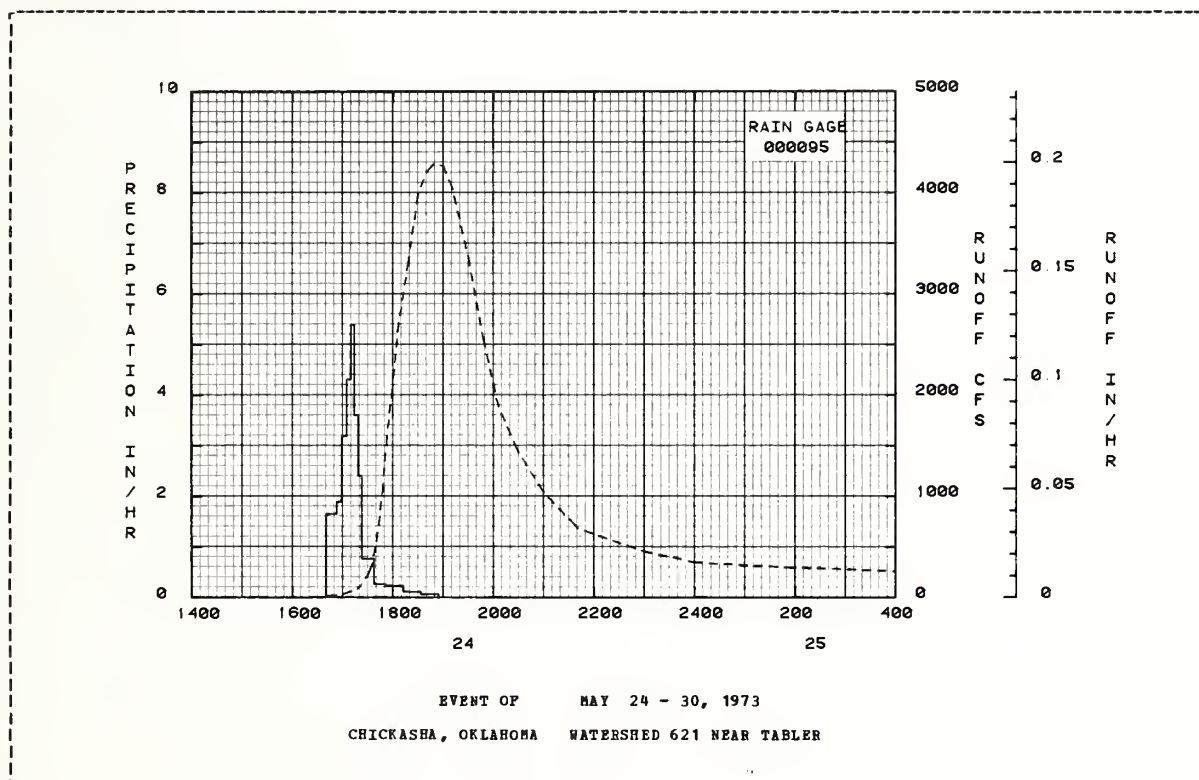
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.001117. To convert discharge in inches to AC-FT, multiply by 1,776. STA AV based on 11 yr (1963-73) record period.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLEE									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.		
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)		
EVENT OF MAY 24 - 30, 1973												
RG 000095			RG 000095									
5-24	0.0	0.022	5-24	1640	0.0	0.0	5-24	1641	22.410	0.0		
				1653	1.6615	0.36		1653	23.500	0.0002		
				1659	1.9000	0.55		1700	36.840	0.0004		
				1705	3.2000	0.87		1711	65.950	0.0008		
				1710	4.3200	1.23		1718	90.890	0.0012		
WATERSHED CONDITIONS:												
From a revised 1971 survey;				1714	5.4000	1.59		1723	133.560	0.0017		
sowed crop - 9%; row crop -				1719	3.6000	1.89		1730	220.820	0.0026		
1%; alfalfa - 2%; pasture				1723	2.4000	2.05		1736	338.688	0.0039		
and range - 77%; and miscel-				1738	0.7600	2.24		1741	572.610	0.0057		
laneous - 11%.				1752	0.2571	2.30		1748	1054.510	0.0101		
			1813	0.2286	2.38		1753	1604.788	0.0153			
			1834	0.1143	2.42		1800	2106.109	0.0254			
			1855	0.0571	2.44		1806	2648.158	0.0364			
							1818	3299.309	0.0641			
							1830	3995.288	0.0981			
							1841	4220.664	0.1331			
							1848	4283.656	0.1562			
							1900	4262.586	0.1960			
							1911	4035.617	0.2313			
							1930	3352.289	0.2858			
							1948	2544.358	0.3270			
							2006	1884.538	0.3579			
							2030	1432.177	0.3888			
							2100	1038.878	0.4175			
							2141	681.360	0.4449			
							2300	450.310	0.4795			
							2400	344.708	0.4980			
							5-25	200	290.290	0.5276		
								500	256.500	0.5658		
								900	244.220	0.6124		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00004654.

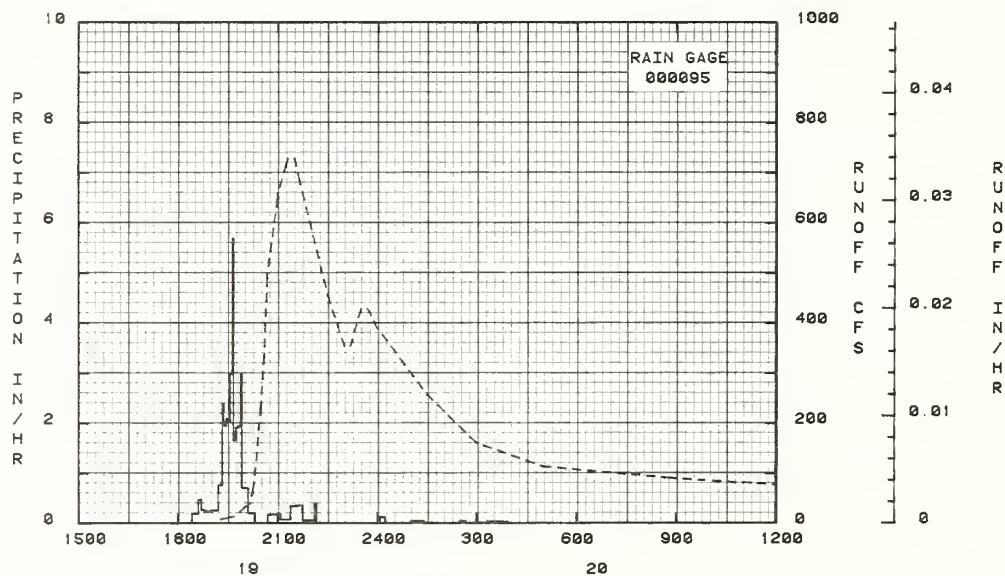
1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER								
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 24 - 30, 1973 (CONTINUED)											
							5-25	1800	225.380	0.7107	
								2400	220.820	0.7730	
							5-26	1200	192.660	0.8885	
								2400	168.840	0.9894	
							5-27	300	157.680	1.0122	
								730	127.130	1.0420	
								1030	107.740	1.0584	
								1500	102.310	1.0804	
								2100	84.000	1.1064	
								2400	81.140	1.1180	
							5-28	1200	74.680	1.1615	
								2400	68.240	1.2014	
							5-29	1200	61.800	1.2377	
								2400	54.590	1.2702	
							5-30	1200	47.380	1.2987	
								2400	43.260	1.3240	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004654.



1973	SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 621 NEAR TABLER			
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF NOVEMBER 19 - 23, 1973										
11-19	RG 000095 0.0	0.007	11-19	RG 000095			11-19			
				1825	0.0	0.0		1918	9.360	0.0
				1837	0.2000	0.04		1941	13.600	0.0002
				1842	0.4800	0.08		2000	32.050	0.0005
				1849	0.2571	0.11		2011	41.270	0.0008
				1859	0.2400	0.15		2018	82.090	0.0012
WATERSHED CONDITIONS: From a revised 1971 survey; sowed crop - 9%; row crop - 1%; alfalfa - 2%; pasture and range - 77%; and miscel- laneous - 11%.				1913	0.2571	0.21		2023	141.870	0.0016
				1920	0.7714	0.30		2030	244.220	0.0027
				1923	2.4000	0.42		2036	338.688	0.0040
				1927	1.9500	0.55		2041	499.530	0.0056
				1929	2.1000	0.62		2100	658.530	0.0142
				1934	2.0400	0.79		2118	728.668	0.0238
				1938	3.0000	0.99		2130	728.668	0.0307
				1940	5.7014	1.18		2141	675.600	0.0366
				1944	1.6500	1.29		2230	454.638	0.0581
				1949	1.9200	1.45		2300	353.860	0.0676
				1953	1.9500	1.58		2311	353.860	0.0705
				1955	3.0000	1.68		2330	429.110	0.0764
				2007	0.7000	1.82		2341	429.110	0.0799
				2019	0.2000	1.86		2400	388.840	0.0860
				2042	0.0	1.86	11-20	130	256.500	0.1086
				2105	0.1826	1.93		300	159.510	0.1231
				2123	0.0667	1.95		500	113.330	0.1358
				2135	0.3500	2.02		900	88.890	0.1546
				2145	0.3600	2.08		1300	76.490	0.1700
				2156	0.0545	2.09		1800	68.500	0.1869
				2207	0.0545	2.10		2400	62.620	0.2052
				2210	0.4000	2.12	11-21	1200	54.710	0.2379
			11-20	5	0.0	2.12		2400	47.665	0.2665
				14	0.1333	2.14	11-22	1200	40.620	0.2912
				101	0.0	2.14		2400	36.335	0.3127
				124	0.0522	2.16	11-23	1200	32.050	0.3318
				229	0.0	2.16		2400	26.970	0.3482
				241	0.0500	2.17				
				300	0.0	2.17				
				319	0.0	2.17				
				334	0.0400	2.18				
				356	0.0273	2.19				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00004654.



EVENT OF NOVEMBER 19 - 23, 1973
CHICKASHA, OKLAHOMA WATERSHED 621 NEAR TABLER

CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT

LOCATION: Sngar Creek Watershed above Gracemont in Caddo County, Okla.; tributary to Washita River; Red River Basin.
 GAGING STATION--SE1/4 sec. 9, T. 8N., R. 10 W., lat. 35 deg. 10 min. 30 sec. N., long. 98 deg. 15 min. 30 sec. W.,
 one mile south of Gracemont, Okla., on downstream side of county road bridge.

AREA: 131780.00 acres 205.90 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	3.58	0.47	7.58	3.06	3.75	3.44	3.18	0.68	8.14	2.57	1.54	0.70	38.69					
	Q	0.034	0.033	0.401	0.313	0.080	0.154	0.053	0.005	0.182	0.109	0.067	0.076	1.505					
STA AV	P	1.00	0.78	2.17	2.51	3.64	3.53	2.03	2.40	5.29	1.99	1.55	1.03	27.91					
	Q	0.045	0.218	0.128	0.145	0.184	0.115	0.019	0.021	0.180	0.040	0.039	0.053	1.188					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		3-30	0.008	3-30	0.008	3-30	0.016	3-30	0.044	3-30	0.079	3-30	0.114	3-30	0.157	3-24	0.157	3-24	0.268
MAXIMUMS FOR PERIOD OF RECORD																			
		9-21	0.064	9-21	0.062	9-21	0.122	9-21	0.318	9-21	0.497	9-21	0.653	9-21	0.815	9-21	1.238		
		1965		1965		1965		1965		1965		1965		1965		1965			

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 10%; row crop - 12%; alfalfa - 4%; pasture and range - 56% and miscellaneous - 18%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1963, USDA Misc. Pub. 1164, p. 69.18-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). The stream gaging station was maintained from Oct. 1955 to Oct. 1963 by the U.S. Geological Survey. Precipitation data obtained from a Thiessen weighted average of 32 gages on the watershed. Precipitation records began Oct. 1961; runoff records began Oct. 1963. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973		DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA			WATERSHED 121 AT GRACEMONT			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.01	0.07	0.0	0.0	0.60	0.0	0.0	0.12	0.0	0.0	0.0	
2	0.50	0.0	0.0	0.45	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.60	0.0	0.50	0.08	0.0	0.0	0.0	0.0	1.58	0.60	0.0	0.67	
4	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.47	0.48	0.0	0.01	
5	0.0	0.0	0.39	0.0	0.0	0.0	0.01	0.0	0.03	0.03	0.0	0.0	
6	0.17	0.0	0.63	0.0	0.27	0.0	0.0	0.0	0.95	0.0	0.02	0.0	
7	0.12	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.03	0.0	
8	0.0	0.0	0.49	0.37	0.0	0.0	0.02	0.0	0.85	0.0	0.01	0.0	
9	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	
10	0.0	0.0	1.28	0.0	0.0	0.0	0.91	0.02	0.0	0.66	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	
12	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.44	0.13	0.0	0.0	
13	0.0	0.0	0.14	0.27	0.0	0.02	0.01	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.01	0.0	0.06	0.64	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	1.20	0.0	0.05	0.0	0.43	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.0	0.0	
18	0.0	0.02	0.0	0.0	0.0	1.16	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.36	0.0	0.23	0.0	0.0	0.0	0.0	0.35	0.02	
20	0.0	0.0	0.0	0.0	0.01	0.0	0.24	0.0	0.0	0.0	0.06	0.0	
21	1.24	0.0	0.0	0.0	0.27	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.22	0.0	0.0	1.08	0.01	0.45	0.0	0.03	0.0	0.0	0.0	
23	0.0	0.0	0.65	0.0	0.08	0.0	0.32	0.0	0.0	0.0	0.13	0.0	
24	0.0	0.0	1.26	0.19	0.0	0.0	0.0	0.0	0.01	0.0	0.89	0.0	
25	0.34	0.0	0.0	0.0	0.0	0.0	0.10	0.0	0.0	0.0	0.0	0.0	
26	0.06	0.0	0.0	0.0	0.10	0.0	0.0	0.0	2.35	0.0	0.0	0.0	
27	0.02	0.0	0.55	0.0	0.0	0.0	0.0	0.0	0.04	0.03	0.05	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.54	0.03	0.03	0.0	0.0	0.0	0.0	
29	0.0		0.01	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0		1.60	0.0	0.74	0.0	0.14	0.0	0.0	0.0	0.0	0.0	
31	0.53		0.0		1.20		0.0	0.0		0.0		0.0	
TOTAL	3.58	0.47	7.58	3.06	3.75	3.44	3.18	0.68	8.14	2.57	1.54	0.70	
STA AV	1.00	0.78	2.17	2.51	3.64	3.53	2.03	2.40	5.29	1.99	1.55	1.03	

NOT

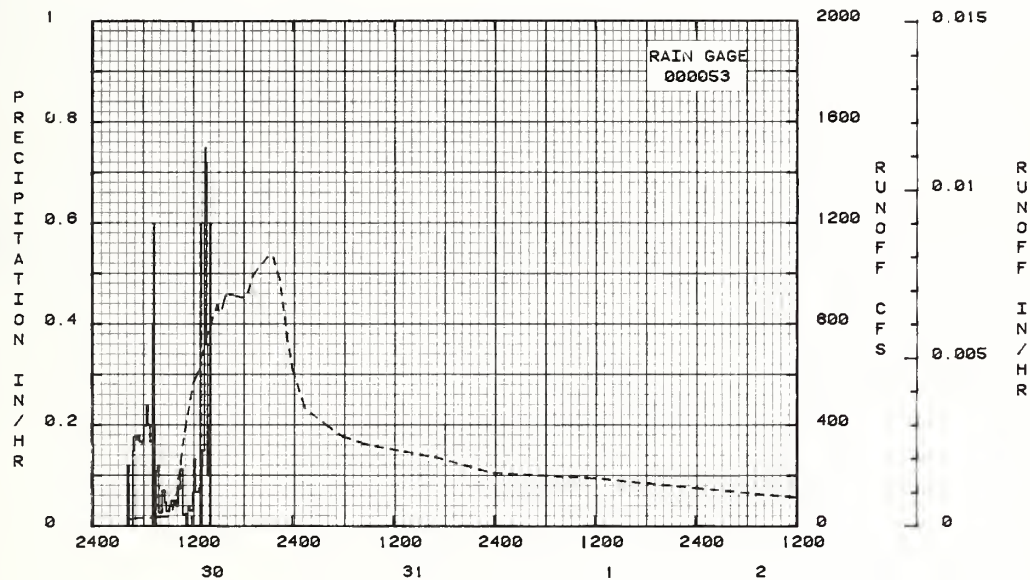
1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.43	13.31	6.75	183.70	11.85	72.98	3.39	1.56	0.36	15.49	8.45	11.68
2	1.35	10.84	6.38	120.55	9.71	166.48	2.79	1.31	0.41	9.80	8.93	11.16
3	12.98	8.73	7.61	103.07	8.71	115.15	2.07	1.23	0.72	7.38	8.05	31.00
4	5.26	7.76	15.87	71.71	8.44	74.48	1.52	1.27	285.84	32.36	6.24	38.93
5	1.30	7.30	8.65	51.29	7.56	50.06	1.19	1.19	63.39	33.41	5.35	28.36
6	1.04	7.00	160.17	38.27	12.57	33.10	0.79	1.00	50.30	26.91	6.13	22.68
7	1.00	7.36	36.85	33.02	10.76	22.73	0.35	0.81	40.44	23.04	7.26	19.24
8	1.00	8.45	30.70	38.01	9.56	16.09	0.20	0.88	39.90	18.74	8.02	16.68
9	1.00	10.38	28.23	35.32	9.39	11.81	0.11	1.74	29.71	12.27	7.71	15.56
10	1.00	8.40	246.77	31.48	8.71	9.35	2.51	1.26	20.25	10.07	7.46	13.54
11	0.99	6.96	78.25	29.30	8.39	8.55	3.99	0.88	13.34	92.59	8.20	12.77
12	0.90	6.11	55.50	26.79	7.01	7.81	2.74	0.44	11.20	62.14	9.04	12.56
13	0.80	5.32	33.65	38.97	6.16	7.99	2.20	0.25	12.70	46.96	9.57	11.74
14	0.70	4.24	21.07	31.20	5.84	9.32	44.52	0.41	8.43	34.06	10.31	11.46
15	1.35	3.89	16.77	225.60	5.71	7.39	76.28	0.88	7.25	26.71	9.77	10.57
16	6.14	3.68	15.79	174.20	4.82	7.60	38.82	2.07	6.07	21.41	8.05	10.06
17	8.57	3.98	14.89	99.35	2.64	7.40	24.69	1.57	26.67	16.13	8.19	9.94
18	5.52	4.64	12.60	72.50	2.63	28.53	14.56	1.24	23.66	12.89	8.55	9.51
19	4.23	4.31	9.74	71.01	2.04	69.98	9.29	1.21	19.16	11.05	9.23	9.15
20	4.05	3.44	8.25	47.88	1.56	28.89	6.56	1.23	16.14	9.29	18.54	9.10
21	27.47	3.44	7.36	34.76	11.67	19.16	6.93	0.81	15.11	8.61	15.77	9.55
22	23.55	4.52	7.40	27.71	9.06	13.99	9.07	0.43	14.57	8.19	11.99	11.98
23	12.70	6.29	12.43	23.75	54.04	10.00	11.27	0.23	14.50	7.66	10.64	10.77
24	9.71	6.75	206.34	23.39	18.10	6.38	7.74	0.19	13.20	6.95	26.65	10.44
25	8.89	6.11	116.87	20.31	14.40	4.51	4.59	0.11	5.07	6.55	34.93	10.06
26	9.71	5.54	57.05	18.51	13.02	3.55	2.70	0.10	65.83	6.65	27.46	9.94
27	8.84	5.79	45.15	17.02	10.50	2.15	1.64	0.07	90.38	7.40	22.98	9.63
28	6.48	6.16	116.43	15.27	7.73	14.31	1.06	0.57	51.45	6.56	18.13	9.94
29	6.10		35.68	14.35	5.13	15.18	1.65	1.85	33.90	5.98	15.14	10.00
30	6.01		480.83	12.85	4.25	7.18	3.74	1.15	26.39	6.46	12.86	9.89
31	6.70		320.90		149.49		2.34	0.20		7.06		4.66
MEAN	6.024	6.453	71.642	57.705	14.241	28.402	9.397	0.908	33.545	19.379	12.320	13.630
INCHES	0.034	0.033	0.401	0.313	0.080	0.154	0.053	0.005	0.182	0.109	0.067	0.076
STA AV	0.045	0.218	0.128	0.145	0.184	0.115	0.019	0.021	0.180	0.040	0.039	0.053

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.0001806. To convert discharge in inches to AC-FT, multiply by 10,982. STA AV based on 12 yr (1963-73) record period.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT								
ANTECEDENT CONDITIONS			HAINFALL				RUNOFF				
Date	Hainfall	Hunoff	Date	Time	Intensity	Acc.	Date	Time	Hate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MARCH 30 - APRIL 12, 1973											
HG 000053			RG 000053								
3-30	0.0	0.001	3-30	420	0.0	0.0	3-30	423	30.200	0.0	
				430	0.1200	0.02		453	24.800	0.0001	
				459	0.0	0.02		511	31.300	0.0002	
				503	0.1500	0.03		611	34.200	0.0004	
				520	0.1765	0.08		741	35.300	0.0008	
WATERSHED CONDITIONS: From a revised 1971 survey; sowed crop - 10%; row crop - 12%; alfalfa - 4%; pasture and range - 56%; and miscel- laneous - 18%.				534	0.1714	0.12		911	40.900	0.0012	
				544	0.1800	0.15		941	65.400	0.0014	
				602	0.1667	0.20		1011	128.700	0.0018	
				613	0.1636	0.23		1041	258.000	0.0025	
				637	0.2000	0.31		1111	386.000	0.0037	
				647	0.2400	0.35		1211	568.498	0.0073	
				659	0.2000	0.39		1241	611.898	0.0095	
				717	0.1667	0.44		1253	618.698	0.0105	
				719	0.3000	0.45		1341	741.799	0.0146	
				723	0.0	0.45		1500	877.300	0.0226	
				726	0.4000	0.47		1511	853.398	0.0238	
				727	0.6000	0.48		1536	862.799	0.0265	
				728	0.6000	0.49		1600	913.198	0.0291	
				729	0.0	0.49		1630	918.798	0.0326	
				732	0.2000	0.50		1800	904.298	0.0429	
				742	0.0	0.50		1841	928.000	0.0476	
				753	0.1091	0.52		1918	995.999	0.0520	
				803	0.1200	0.54		2100	1066.298	0.0652	
				826	0.0261	0.55		2141	1063.898	0.0707	
				843	0.0706	0.57		2230	973.998	0.0770	
				856	0.0462	0.58		2318	759.698	0.0822	
				917	0.0286	0.59		2400	618.999	0.0858	
				932	0.0400	0.60	3-31	130	465.100	0.0919	
				1007	0.0514	0.63		400	399.800	0.1001	
				1022	0.0400	0.64		600	352.300	0.1057	

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MARCH 30 - APRIL 12, 1973 (CONTINUED)										
			3-30	1038	0.0750	0.66	3-31	900	320.100	0.1133
				1054	0.1125	0.69		1700	271.398	0.1311
				1120	0.0231	0.70		2400	208.800	0.1438
				1131	0.0	0.70	4- 1	1200	188.100	0.1617
				1146	0.0400	0.71		2400	149.800	0.1770
				1206	0.0300	0.72	4- 2	1200	111.500	0.1888
				1215	0.0667	0.73		2400	109.400	0.1987
				1224	0.1333	0.75	4- 3	1200	107.300	0.2085
				1242	0.0667	0.77		2400	88.300	0.2174
				1251	0.0667	0.78	4- 4	1200	69.300	0.2245
				1259	0.0750	0.79		2400	59.950	0.2303
				1300	0.6000	0.80	4- 5	1200	50.600	0.2353
				1301	0.0	0.80		2400	44.000	0.2396
				1307	0.1000	0.81	4- 6	1200	37.400	0.2433
				1311	0.0	0.81		2400	34.300	0.2465
				1316	0.1200	0.82	4- 7	1200	31.200	0.2495
				1328	0.1500	0.85		2400	35.400	0.2525
				1333	0.6000	0.90	4- 8	1200	39.600	0.2559
				1337	0.7500	0.95		2400	37.450	0.2593
				1340	0.6000	0.98	4- 9	1200	35.300	0.2626
				1345	0.7200	1.04		2400	33.250	0.2657
				1350	0.3600	1.07	4-10	1200	31.200	0.2686
				1402	0.1000	1.09		2400	30.250	0.2714
				1408	0.2000	1.11	4-11	1200	29.300	0.2741
				1410	0.0	1.11		2400	28.350	0.2767
				1411	0.6000	1.12	4-12	1200	27.400	0.2792
				1413	0.0	1.12		2400	24.000	0.2815

NOTES: To convert runoff in CFS to IN/HH, multiply by 0.00007526.



EVENT OF MARCH 30 - APRIL 12, 1973
CHICKASHA, OKLAHOMA WATERSHED 121 AT GRACEMONT

CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TAHLEH

LOCATION: Hedingfield Watershed is the West branch of East Hitter Creek 1.4 miles above East Hitter Creek gaging station, in Grady County, Okla.; tributary to East Hitter Creek; Washita River; Hed River Basin. GAGING STATION--SE1/4 sec. 22, T. 7 N., R. 6 W., lat. 35 deg. 03 min. 53 sec. N., long. 97 deg. 49 min. 13 sec. W.

AREA: 12314.00 acres 19.24 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TAHLEH	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	3.52	0.61	6.37	2.51	7.15	6.53	4.22	1.33	8.33	3.23	3.48	0.13	47.41	
	Q	0.374	0.263	1.647	0.753	1.754	3.032	0.422	0.191	0.669	0.418	0.990	0.343	10.855	
STA AV	P	1.33	1.09	2.51	2.94	4.25	3.38	2.66	3.13	4.93	3.17	1.70	0.97	32.06	
	Q	0.155	0.134	0.448	0.441	0.606	0.796	0.146	0.180	0.311	0.268	0.274	0.157	3.915	
ANNUAL MAXIMUM DISCHARGE (cu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	Date	Vol.	Date	Vol.	Date	Vol.
1973		6-5	0.281	6-4	0.272	6-4	0.502	6-4	0.924	6-4	1.067	6-4	1.178	6-4	1.291
														5-30	2.732
MAXIMUMS FOR PERIOD OF RECORD															
		6-5	0.281	6-4	0.272	6-4	0.502	6-4	0.924	6-4	1.067	6-4	1.178	6-4	1.291
		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 4%; alfalfa - 1%; pasture and range - 90% and miscellaneous - 5%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub 1216, p. 69.16-8 (Topography) and p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 18 gages on the watershed. Precipitation and runoff records began Jan. 1965. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TAHLEH	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.11	0.0	0.0	0.65	0.0	0.0	0.41	0.0	0.0	0.0			
2	0.38	0.0	0.0	0.38	0.0	1.97	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.77	0.0	0.14	0.05	0.0	0.0	0.0	0.0	1.19	0.30	0.0	0.13			
4	0.0	0.0	0.0	0.0	0.0	1.94	0.0	0.0	0.26	0.42	0.0	0.0			
5	0.0	0.0	0.03	0.0	0.02	0.02	0.0	0.0	0.64	0.22	0.0	0.0			
6	0.32	0.0	1.45	0.0	0.69	0.0	0.0	0.0	1.50	0.08	0.04	0.0			
7	0.17	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.01	0.0			
8	0.0	0.0	0.17	0.39	0.0	0.0	0.0	0.0	0.24	0.0	0.02	0.0			
9	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.77	0.0	0.0	0.0	0.0			
10	0.0	0.0	1.03	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.0	0.0	0.98	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.03	0.47	0.0	0.0			
13	0.0	0.0	0.16	0.12	0.0	0.09	0.70	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.04	0.0	0.14	0.03	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0			
18	0.0	0.03	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.56	0.0	0.39	0.0	0.0	0.0	0.0	1.98	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.06	0.0			
21	0.80	0.0	0.0	0.0	0.07	0.0	0.12	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.17	0.0	0.27	1.29	0.0	1.22	0.0	0.05	0.0	0.0	0.0			
23	0.0	0.0	1.72	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	1.12	0.01	2.80	0.0	0.0	0.0	0.0	0.0	1.29	0.0			
25	0.55	0.13	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.73	0.51	0.0	0.0			
27	0.03	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.56	0.25	0.08	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.17	0.11	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.08	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.0	0.18	0.0	0.0	0.62	0.0	0.99	0.0	0.0	0.0	0.0	0.0			
31	0.22	0.0	0.0	0.0	1.51	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL		3.52	0.61	6.37	2.51	7.15	6.53	4.22	1.33	8.33	3.23	3.48	0.13		
STA AV		1.33	1.09	2.51	2.94	4.25	3.38	2.66	3.13	4.93	3.17	1.70	0.97		

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are a Thiessen weighted average of 18 rain gages on the watershed. STA AV based on 9 yr (1965-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CRICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLE												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	1.83	7.47	4.76	14.46	8.23	86.85	6.96	5.96	1.87	4.78	4.37	7.36
2	2.01	6.04	4.99	14.31	7.27	395.33	6.27	4.86	2.24	4.33	4.33	7.36
3	16.66	5.19	4.86	17.26	6.97	48.44	5.88	4.47	1.94	2.88	4.33	7.51
4	6.14	5.18	5.09	14.09	6.95	313.39	5.54	4.23	77.12	9.68	4.35	7.37
5	3.50	5.07	4.77	12.54	7.00	330.17	5.24	4.15	8.16	6.50	4.45	6.28
6	2.76	4.99	133.49	11.76	22.35	53.48	5.07	3.83	26.72	6.67	4.49	5.59
7	2.27	5.30	15.52	11.77	11.12	30.64	4.89	3.67	10.60	5.98	4.60	6.07
8	1.84	5.15	10.80	13.40	7.51	24.10	4.66	3.56	6.19	5.35	4.62	5.92
9	1.51	4.56	9.37	12.27	6.98	20.14	4.68	11.65	5.25	4.66	4.62	5.88
10	1.46	4.52	81.80	11.01	6.58	17.87	5.01	3.86	4.48	4.22	4.62	5.88
11	1.46	4.88	21.10	10.45	6.20	16.51	5.01	3.23	3.76	28.19	4.60	5.88
12	1.46	5.01	13.43	10.20	5.77	15.77	4.60	2.88	3.69	16.41	4.49	5.86
13	1.46	4.73	12.82	10.14	5.71	15.26	4.71	2.66	56.54	12.75	4.45	5.73
14	1.51	4.24	11.19	9.96	5.71	15.18	12.65	2.54	6.54	7.39	4.33	5.69
15	2.41	3.96	9.60	22.21	5.69	13.57	5.28	3.15	4.58	5.89	4.20	5.56
16	7.78	3.96	8.80	20.75	5.46	16.03	4.75	5.25	4.19	5.50	4.08	5.52
17	7.84	4.24	8.26	12.23	4.86	17.13	4.24	2.81	5.73	5.13	4.06	5.44
18	4.81	4.69	8.31	11.24	4.74	17.29	3.93	2.55	4.85	5.05	4.10	5.53
19	3.90	4.72	8.07	33.61	4.60	23.39	3.66	2.36	4.11	4.91	98.60	5.07
20	3.80	4.49	7.42	14.18	4.38	13.49	4.31	2.17	3.80	4.74	108.30	6.71
21	22.81	4.36	7.19	11.97	4.32	11.06	10.99	2.02	3.55	4.49	13.35	6.29
22	9.25	4.57	7.31	11.79	5.78	9.77	7.49	1.99	3.34	4.35	8.78	5.90
23	5.65	5.21	24.72	12.20	32.34	9.04	33.37	1.92	3.31	4.31	7.61	5.69
24	4.90	4.95	184.90	10.99	401.62	8.57	6.49	1.82	3.30	4.22	110.91	5.38
25	5.74	4.78	121.25	10.02	87.00	8.15	5.04	1.69	3.15	4.16	37.77	5.11
26	31.33	4.72	29.54	9.64	25.52	7.71	4.60	1.61	27.27	4.14	13.27	5.05
27	11.11	4.51	21.86	9.07	12.86	7.24	4.25	1.60	37.56	18.91	10.29	4.91
28	7.42	4.51	19.94	8.79	9.66	7.42	4.25	1.60	10.55	6.17	8.86	4.78
29	6.08		17.28	8.60	7.98	8.00	4.57	1.61	6.53	5.01	7.99	4.76
30	6.18		17.25	8.54	8.17	7.69	9.24	1.66	5.29	4.76	7.56	4.76
31	6.44		16.52		168.16		20.56	1.64		4.60		2.38
MEAN	6.235	4.857	27.490	12.982	29.273	52.288	7.038	3.194	11.540	6.972	17.079	5.717
INCHES	0.374	0.263	1.647	0.753	1.754	3.032	0.422	0.191	0.669	0.418	0.990	0.343
STA AV	0.155	0.134	0.448	0.441	0.606	0.796	0.146	0.180	0.311	0.268	0.274	0.157

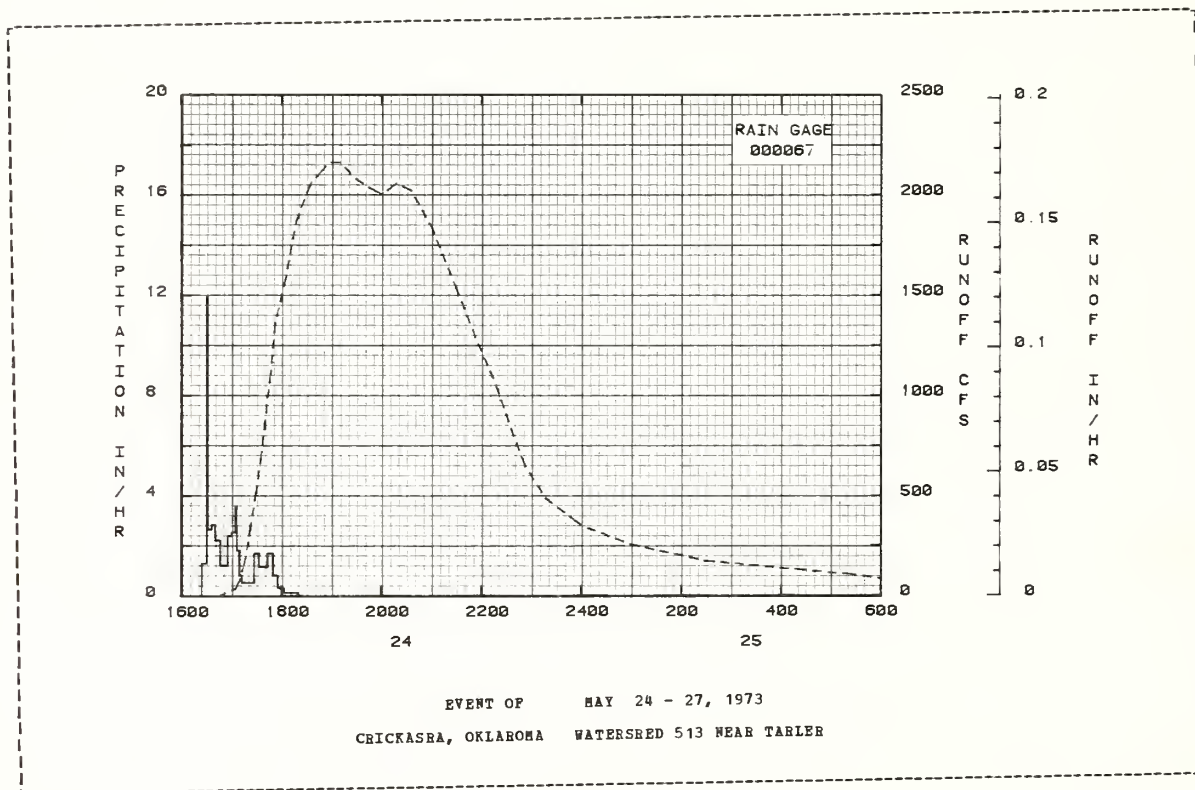
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001933. To convert discharge in inches to AC-FT, multiply by 1,026. STA AV based on 9 yr (1965-73) record period.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA				WATERSHED 513 NEAR TABLER			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 27, 1973										
RG 000067			RG 000067							
5-24	0.0	0.009	5-24	1625	0.0	0.0	5-24	1648	6.220	0.0
				1631	1.3000	0.13		1653	16.090	0.0001
				1632	12.0029	0.33		1706	37.480	0.0005
				1637	2.6400	0.55		1711	87.040	0.0010
				1641	2.8500	0.74		1718	195.320	0.0023
WATERSHED CONDITIONS:				1647	2.2000	0.96		1723	330.370	0.0041
From a revised 1971 survey;				1656	1.2000	1.14		1730	514.178	0.0080
sowed crop - 4%; alfalfa -				1701	2.4000	1.34		1736	684.908	0.0129
1%; pasture and range - 90%;				1705	2.5500	1.51		1741	880.278	0.0181
and miscellaneous - 5%.				1707	3.6000	1.63		1748	1128.428	0.0276
				1710	1.8000	1.72		1753	1364.548	0.0359
				1713	0.8000	1.76		1806	1600.858	0.0618
				1728	0.5200	1.89		1818	1872.658	0.0898
				1734	1.7000	2.06		1836	2066.328	0.1373
				1744	1.1400	2.25		1853	2144.428	0.1854
				1750	1.7000	2.42		1900	2164.239	0.2057
				1756	0.8000	2.50		1911	2164.239	0.2376
				1804	0.3000	2.54		1930	2079.218	0.2917
				1810	0.1000	2.55		2000	2002.579	0.3739
				1820	0.1200	2.57		2018	2059.898	0.4230
								2036	2021.578	0.4723
								2100	1842.508	0.5345
								2130	1535.588	0.6025
								2153	1290.838	0.6462
								2218	1045.778	0.6854
								2236	831.398	0.7080
								2253	643.030	0.7249
								2318	484.688	0.7438
								2400	351.128	0.7674
							5-25	100	253.340	0.7917

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.0008054.

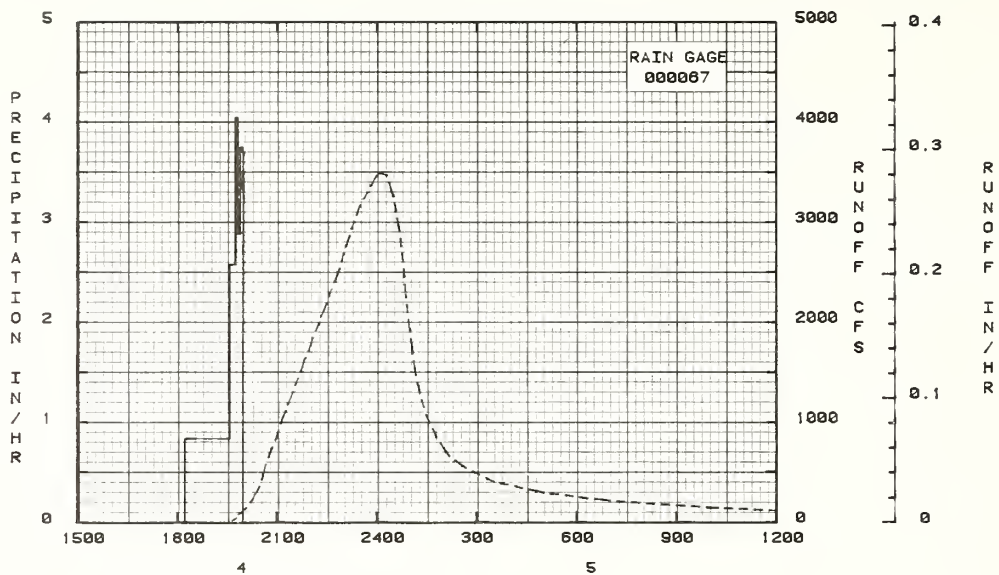
1973 SELECTED RUNOFF EVENT			CRICKASRA, OKLAHOMA WATERSHED 513 NEAR TARLER							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF MAY 24 - 27, 1973 (CONTINUED)										
							5-25	230	172.070	0.8174
								430	124.940	0.8413
								530	101.150	0.8504
								800	83.260	0.8690
								1118	68.360	0.8891
								1330	51.780	0.8998
								1830	40.340	0.9183
								2100	39.760	0.9264
								2400	35.830	0.9355
							5-26	300	31.660	0.9437
								1230	27.360	0.9662
								1430	22.630	0.9703
								2400	15.450	0.9848
							5-27	1200	12.500	0.9983
								2400	10.985	1.0097

NOTES: To convert runoff in CFS to IN/RR, multiply by 0.00008054.



1973			SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED 513 NEAR TABLER		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 4 - 7, 1973											
RG 000067			RG 000067								
6- 4	0.0	0.036	6- 4	1815	0.0	0.0	6- 4	1941	20.670	0.0	
				1936	0.8370	1.13		1948	48.420	0.0003	
				1946	2.5800	1.56		1953	82.330	0.0008	
				1950	4.0500	1.83		2006	146.620	0.0028	
				1955	2.8800	2.07		2018	238.380	0.0059	
WATERSHED CONDITIONS:											
From a revised 1971 survey;											
sowed crop - 4%; alfalfa -											
1%; pasture and range - 90%;											
and miscellaneous - 5%.											
			1959	3.7500	2.32		2030	358.240	0.0107		
							2036	456.300	0.0139		
							2041	576.580	0.0174		
							2048	684.908	0.0233		
							2100	849.998	0.0357		
							2111	1041.530	0.0497		
							2130	1305.378	0.0796		
							2148	1573.458	0.1144		
							2206	1842.508	0.1556		
							2230	2190.808	0.2206		
							2253	2539.888	0.2936		
							2311	2865.598	0.3589		
							2330	3173.599	0.4360		
							2400	3465.598	0.5697		
							6- 5	6	3492.118	0.5976	
							18	3465.598	0.6537		
							30	3257.858	0.7079		
							41	2905.028	0.7533		
							48	2598.678	0.7792		
							53	2244.560	0.7954		
							100	1903.109	0.8149		
							106	1684.790	0.8294		
							111	1466.738	0.8399		
							118	1290.838	0.8529		
							130	1062.860	0.8719		
							148	842.529	0.8949		
							211	658.948	0.9180		
							241	535.500	0.9421		
							330	402.790	0.9730		
							500	293.350	1.0150		
							700	211.880	1.0557		
							1000	143.950	1.0987		
							1300	112.070	1.1296		
							1800	87.040	1.1697		
							2400	70.850	1.2079		
							6- 6	600	60.460	1.2396	
							1500	50.420	1.2798		
							2400	36.380	1.3112		
							6- 7	1200	29.700	1.3432	
							2400	26.780	1.3704		

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.00008054.



EVENT OF JUNE 4 - 7, 1973
CHICKASHA, OKLAHOMA WATERSHED 513 NEAR TABLER

CHICKASAW, OKLAHOMA WATERSHED 311 NEAR POCASSET

LOCATION: Salt Creek Watershed 1/2 mile East of U.S. highway 81 near Pocasset, in Grady County, Okla.; tributary to Washita River; Red River Basin. GAGING STATION--NW1/4 sec. 28, T. 8 N., R. 7 W., lat. 35 deg. 08 min. 44 sec. N, long. 97 deg. 57 min. 30 sec. W.

AREA: 15206.00 acres 23.76 sq. miles

MONTHLY PRECIPITATION AND RUNOFF (inches)						CRICKASAW, OKLAHOMA				WATERSHED 311 NEAR POCASSET							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	2.97	0.47	5.37	2.26	4.24	4.45	2.77	1.72	6.66	3.23	1.58	0.27	35.99			
	Q	0.236	0.013	0.799	0.228	0.181	0.873	0.013	0.011	0.374	0.359	0.052	0.029	3.171			
STA AV	P	1.02	0.80	1.91	3.23	4.32	3.55	1.88	2.11	3.92	3.10	1.41	0.90	28.13			
	Q	0.043	0.011	0.128	0.468	0.468	0.456	0.005	0.008	0.081	0.153	0.032	0.019	1.874			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days			
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.		
1973		6- 2	0.060	6- 2	0.060	6- 2	0.117	6- 2	0.295	6- 2	0.415	6- 2	0.619	6- 1	0.683	5-30	0.885
MAXIMUMS FOR PERIOD OF RECORD																	
		4-12	0.320	4-12	0.314	4-12	0.600	4-12	1.201	4-12	1.310	4-12	1.338	4-12	1.424	4- 9	1.720
		1967		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: From a revised 1971 survey; sowed crop - 36%; row crop - 1%; alfalfa - 3%; pasture and range - 49% and miscellaneous - 11%. For maps of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1967, USDA Misc. Pub. 1262, p. 69.27-4 (Topography) and 1965, USDA Misc. Pub. 1216, p. 69.7-21 (Composite). Precipitation data obtained from a Thiessen weighted average of 9 gages on the watershed. Precipitation and runoff records began Jan. 1967. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)													
CHICKASAW, OKLAHOMA WATERSHED 311 NEAR POCASSET													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.12	0.0	0.0	0.47	0.0	0.0	0.26	0.0	0.0	0.0	0.0
2	0.40	0.0	0.0	0.30	0.0	2.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.76	0.0	0.20	0.10	0.0	0.0	0.0	0.0	0.07	0.43	0.0	0.27	
4	0.0	0.0	0.0	0.0	0.0	0.09	0.03	0.0	0.12	0.47	0.0	0.0	0.0
5	0.0	0.0	0.04	0.0	0.0	0.0	0.30	0.0	0.22	0.17	0.0	0.0	0.0
6	0.18	0.0	0.72	0.0	0.66	0.0	0.0	0.0	1.05	0.03	0.02	0.0	0.0
7	0.11	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.06	0.01	0.0	0.0
8	0.0	0.0	0.31	0.36	0.0	0.0	0.0	0.0	0.65	0.0	0.03	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.02	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	1.08	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.14	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.15	0.73	0.0	0.0	0.0
13	0.0	0.0	0.03	0.20	0.0	0.03	0.35	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.03	0.05	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.91	0.0	0.0	0.0	0.0
18	0.0	0.02	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.47	0.0	0.81	0.0	0.0	0.0	0.0	0.35	0.0	0.0
20	0.0	0.0	0.0	0.0	0.01	0.0	0.36	0.0	0.0	0.0	0.03	0.0	0.0
21	0.73	0.0	0.0	0.0	0.08	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.18	0.0	0.11	1.08	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	1.61	0.0	0.16	0.0	0.06	0.0	0.0	0.0	0.01	0.0	0.0
24	0.0	0.0	0.77	0.04	0.06	0.0	0.0	0.0	0.01	0.0	1.03	0.0	0.0
25	0.41	0.01	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.0
26	0.22	0.0	0.0	0.0	0.01	0.0	0.0	0.0	1.79	0.16	0.0	0.0	0.0
27	0.0	0.0	0.17	0.0	0.0	0.0	0.0	0.0	0.35	0.04	0.10	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.42	0.12	0.03	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.01	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.31	0.0	0.0	0.66	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0
31	0.16	0.0			1.52		0.0	0.0		0.0			0.0
TOTAL	2.97	0.47	5.37	2.26	4.24	4.45	2.77	1.72	6.66	3.23	1.58	0.27	
STA AV	1.02	0.80	1.91	3.23	4.32	3.55	1.88	2.11	3.92	3.10	1.41	0.90	

NOTES: For daily air temperatures in the vicinity, see table for Watershed W-700, (69.007) of this publication. Precipitation values are Thiessen weighted average of 9 rain gages on the watershed. STA AV based on 7 yr (1967-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CRICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.04	0.51	0.23	3.85	0.82	19.94	0.41	0.08	0.01	1.18	0.40	0.94
2	0.04	0.47	0.23	2.56	0.56	389.11	0.29	0.06	0.02	0.59	0.37	0.91
3	37.11	0.58	0.23	13.44	0.49	45.62	0.19	0.06	0.01	0.64	0.36	1.18
4	6.62	0.49	0.26	4.97	0.52	12.70	0.22	0.05	0.01	8.97	0.36	1.06
5	0.92	0.40	0.26	2.24	0.59	6.86	0.19	0.05	0.05	9.88	0.32	0.97
6	0.26	0.37	10.08	1.57	1.98	4.56	0.11	0.05	0.21	3.65	0.32	0.85
7	0.13	0.38	3.87	1.48	5.61	4.25	0.14	0.04	0.14	2.09	0.36	0.73
8	0.09	0.30	1.45	2.38	2.62	3.79	0.13	0.03	0.15	1.36	0.39	0.62
9	0.08	0.26	4.88	3.49	1.38	2.34	0.12	3.74	0.07	0.88	0.39	0.53
10	0.08	0.26	141.13	2.00	0.87	1.75	0.71	1.48	0.05	0.57	0.37	0.52
11	0.05	0.26	11.32	1.38	0.63	1.64	0.68	0.25	0.02	78.31	0.36	0.52
12	0.05	0.29	2.98	1.22	0.49	1.28	0.35	0.10	0.90	66.40	0.36	0.53
13	0.05	0.29	1.63	1.26	0.44	1.01	0.23	0.05	52.78	29.55	0.36	0.57
14	0.06	0.28	1.19	1.40	0.43	0.91	0.31	0.04	4.06	8.24	0.36	0.61
15	0.16	0.23	0.87	19.42	0.37	0.85	0.46	0.09	2.35	3.88	0.32	0.61
16	2.84	0.21	0.69	34.67	0.36	0.79	0.28	0.32	1.56	2.01	0.30	0.58
17	15.13	0.23	0.58	5.57	0.32	0.73	0.18	0.33	32.28	1.31	0.32	0.56
18	2.72	0.26	0.57	3.12	0.32	0.71	0.13	0.13	9.70	1.04	0.32	0.51
19	0.80	0.26	0.56	20.13	0.32	29.05	0.11	0.06	3.15	0.86	0.39	0.41
20	0.39	0.26	0.49	6.03	0.29	14.02	0.11	0.04	1.39	0.74	0.66	0.37
21	45.80	0.23	0.44	2.47	0.29	6.46	0.24	0.03	0.72	0.67	0.81	0.37
22	7.97	0.23	0.44	2.03	0.73	3.75	0.47	0.02	0.41	0.54	0.68	0.40
23	1.39	0.23	18.89	1.56	6.31	1.70	0.98	0.01	0.24	0.49	0.52	0.48
24	0.73	0.26	179.99	1.34	1.77	0.89	0.28	0.01	0.15	0.52	7.12	0.51
25	0.69	0.31	83.24	1.21	0.92	0.55	0.20	0.00	0.10	0.56	9.00	0.52
26	19.57	0.26	9.54	1.17	0.55	0.40	0.15	0.0	63.34	0.63	2.31	0.52
27	4.22	0.21	4.64	1.05	0.37	0.29	0.12	0.0	49.91	0.98	1.65	0.52
28	1.26	0.20	4.47	0.99	0.26	0.19	0.13	0.0	9.44	1.02	1.43	0.53
29	0.63		3.10	0.97	0.20	1.06	0.14	0.0	3.89	0.84	1.33	0.60
30	0.53		5.72	0.91	0.36	0.71	0.13	0.0	1.94	0.59	1.17	0.53
31	0.52		16.61		84.76		0.12	0.00		0.48		0.26
MEAN	4.869	0.305	16.469	4.863	3.740	18.597	0.268	0.230	7.968	7.402	1.114	0.607
INCHES	0.236	0.013	0.799	0.228	0.181	0.873	0.013	0.011	0.374	0.359	0.052	0.029
STA AV	0.043	0.011	0.128	0.468	0.468	0.456	0.005	0.008	0.081	0.153	0.032	0.019

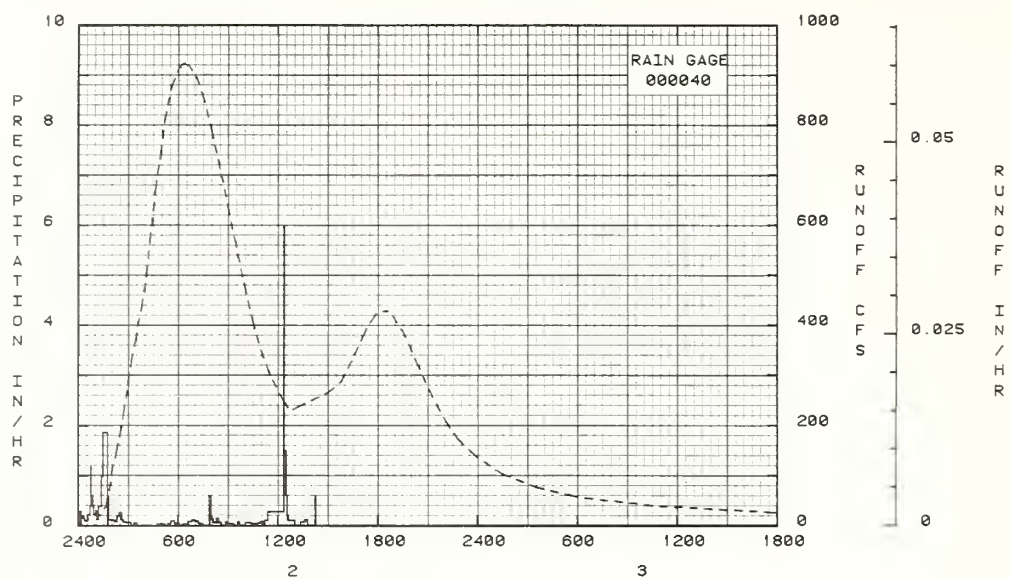
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.001565. To convert discharge in inches to AC-FT, multiply by 1,267. STA AV based on 7 yr (1967-73) record period.

1973		SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA		WATERSHED 311 NEAR POCASSET			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 2 - 6, 1973										
6- 2	RG 000040 0.0	0.002	6- 2	RG 000040 2	0.0	0.0	6- 2	111	21.160	0.0
				8	0.0	0.0		123	21.500	0.0003
				10	0.3000	0.01		141	41.230	0.0009
				13	0.0	0.01		153	72.180	0.0016
				19	0.2000	0.03		200	106.640	0.0023
WATERSHED CONDITIONS: From a revised 1971 survey; sowed crop - 36%; row crop - 1%; alfalfa - 3%; pasture and range - 49%; and miscel- laneous - 11%.				23	0.1500	0.04		218	149.520	0.0048
				29	0.1000	0.05		236	198.370	0.0082
				35	0.1000	0.06		248	240.370	0.0111
				43	0.2250	0.09		300	287.958	0.0145
				46	0.4000	0.11		311	329.158	0.0182
				47	1.2000	0.13		330	384.628	0.0256
				52	0.6000	0.18		348	438.770	0.0336
				53	0.6000	0.19		406	504.050	0.0429
				56	0.4000	0.21		418	570.418	0.0499
				104	0.2250	0.24		430	631.418	0.0577
				108	0.3000	0.26		441	688.938	0.0656
				113	0.1200	0.27		500	759.878	0.0806
				119	0.4000	0.31		511	812.168	0.0900
				122	0.4000	0.33		536	879.668	0.1129
				125	0.4000	0.35		606	919.540	0.1423
				128	1.0000	0.40		623	924.800	0.1593
				129	1.2000	0.42		636	921.300	0.1724
				146	1.8706	0.95		706	895.178	0.2020
				147	0.0	0.95		736	845.620	0.2304
				150	0.6000	0.98		800	789.110	0.2517
				207	0.1059	1.01		830	715.378	0.2762
				213	0.1000	1.02		900	635.878	0.2983
				221	0.0750	1.03		930	556.290	0.3177
				227	0.2000	1.05		1000	477.458	0.3346
				236	0.2667	1.09		1030	407.620	0.3490

NOTES: To convert runoff in CFS to IN/RR, multiply by 0.00006522.

1973	SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET						
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 2 - 6, 1973 (CONTINUED)										
			6- 2	241	0.1200	1.10	6- 2	1100	348.370	0.3613
				250	0.0667	1.11		1130	302.860	0.3719
				310	0.0600	1.13		1218	250.180	0.3864
				321	0.0	1.13		1236	235.530	0.3911
				332	0.0545	1.14		1253	231.680	0.3954
				444	0.0	1.14		1336	243.290	0.4065
				513	0.0414	1.16		1500	265.208	0.4298
				523	0.0	1.16		1548	287.958	0.4442
				535	0.0500	1.17		1636	342.668	0.4606
				547	0.1000	1.19		1718	393.030	0.4774
				605	0.0333	1.20		1753	423.688	0.4930
				616	0.0	1.20		1818	428.688	0.5045
				638	0.0273	1.21		1836	428.688	0.5129
				651	0.0923	1.23		1853	417.479	0.5208
				701	0.1200	1.25		1941	375.120	0.5414
				714	0.0923	1.27		2030	312.610	0.5597
				730	0.0375	1.28		2118	255.150	0.5746
				753	0.0	1.28		2206	207.390	0.5866
				754	0.6000	1.29		2248	172.350	0.5953
				755	0.0	1.29		2400	134.850	0.6073
				756	0.6000	1.30	6- 3	130	101.950	0.6189
				803	0.1714	1.32		330	75.440	0.6305
				808	0.1200	1.33		600	55.860	0.6412
				818	0.0600	1.34		1030	38.870	0.6551
				826	0.1500	1.36		1800	24.320	0.6705
				836	0.0600	1.37		2400	17.600	0.6787
				850	0.0	1.37	6- 4	1200	12.000	0.6903
				858	0.0750	1.38		2400	9.215	0.6986
				905	0.0	1.38	6- 5	1200	6.430	0.7047
				921	0.0375	1.39		2400	5.360	0.7093
				935	0.0	1.39	6- 6	1200	4.290	0.7131
				943	0.0750	1.40		2400	4.290	0.7165
				1002	0.0	1.40				
				1013	0.0545	1.41				
				1024	0.0545	1.42				
				1045	0.0286	1.43				
				1057	0.0500	1.44				
				1105	0.0750	1.45				
				1113	0.0	1.45				
				1124	0.1091	1.47				
				1222	0.2793	1.74				
				1223	6.0000	1.84				
				1226	1.4000	1.91				
				1228	1.5000	1.96				
				1234	0.6000	2.02				
				1237	0.2000	2.03				
				1249	0.1000	2.05				
				1301	0.1000	2.07				
				1323	0.0	2.07				
				1338	0.0800	2.09				
				1348	0.1200	2.11				
				1415	0.0	2.11				
				1416	0.6000	2.12				
				1417	0.0	2.12				

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.00006522.



EVENT OF JUNE 2 - 6, 1973
CHICKASHA, OKLAHOMA WATERSHED 311 NEAR POCASSET

CHICKASHA, OKLAHOMA WATP SHED 515 NEAR AMBER

LOCATION: Watershed 515 lies northeast of Amber, in Grady County, Okla.; tributary of West Bitter Creek, Washita River; Red River Basin. GAGING STATION--At county road bridge, NE1/4 sec. 20, T. 8 N., R. 6 W., lat. 35 deg. 09 min. 37 sec.; long. 97 deg. 51 min. 06 sec.

AREA: 1620.00 acres 2.53 sq. miles

SLOPES: Slope-Percent 0-1 1-3 3-5 5-12
Percent of area 16.6 22.0 42.4 19.0

SOILS: The soils are deep loamy moderately permeable reddish prairie uplands developed from a mixture of Permian Age sandstones, siltstones and shales.

SERIES OR TYPE (TEXTURE)	Per- cent of area	Avg. depth (in.)	TOPSOIL		SUBSOIL		SUBSTRATUM		Internal drainage
			Structure	Perme- ability	Structure	Perme- ability	Avg. depth to (in.)	Perme- ability	
Renfrow silt loam	51.4	9	Medium granular	Moderate	Fine sub- angular blocky to fine blocky	Very slow	65		Well drained
Lucien-Nash silt loam complex	16.2	9	Fine granular	Moderate to moderately rapid	Coarse granular to coarse prismatic	Moderate	18-34		Well drained
Kirkland silt loam	8.0	10	Fine granular	Moderate	Fine to medium blocky	Very slow	72		Well drained
Bethany silt loam	6.9	14	Medium granular	Moderate	Fine sub- angular blocky to weak coarse blocky	Slow	64		Well drained
Minco silt loam	4.7	16	Medium granular	Moderate	Medium to coarse prismatic	Moderate	55	Moderate	Well drained
Grant silt loam	4.0	12	Fine granular	Moderate	Medium granular to sub- angular blocky	Moderate	50		Well drained
Grant-Port silt loam complex	2.9	20	Medium granular	Moderate	Coarse granular	Moderate	42-50	Moderate	Well drained
Renfrow-Hinkle silt loam complex	1.9	7	Medium granular to subangular blocky	Moderate	Fine to medium sub- angular blocky	Very Slow	42-65		Well to medium well drained
Zaneis loam	1.8	12	Fine granular	Moderate	Fine to coarse sub- angular blocky	Slow to moderate	50		Well drained
Port silt loam	1.6	24	Medium to coarse granular	Moderate	Coarse granular to massive	Moderate	42	Moderate	Well drained
Nash-Lucien silt loam complex	0.6	11	Fine granular	Moderate	Coarse granular to coarse prismatic	Moderate	18-44		Well drained
TOTAL	100.00								

EROSION: Erosion Class + 1 2 3 4 5
Percent of Area 0.0 60.2 39.8 0.0 0.0 0.0

LAND CAPABILITY: Class I II III IV V VI VII VIII
Percent of Area 7.0 13.5 22.1 21.9 0.0 35.5 0.0 0.0

GEOLOGY: Chickasha formation is in the El Reno group of middle Permian age rocks and is described by Davis (1955) as an extremely heterogeneous mixture of sandstones, shales, siltstones and siltstone conglomerates. The Chickasha formation yields small to moderate quantities of water to wells for domestic and stock use. The water in the formation occurs in lenticular bodies of sand and in cracks which are present throughout the formation.

Davis, L. V., 1955. Geology and Ground Water Resources of Grady and Northern Stephens Counties: Oklahoma Geological Survey, Bull. No. 73, pp. 51-54.

Cooperative Research Project of USDA And Oklahoma Agricultural Experiment Station

SYSTEM	Formation and percent of area		Description
Permian	Chickasha	100.00	Heterogeneous mixture of sandstones, shales, siltstones, and siltstone conglomerates
TOTAL		100.00	

SURFACE DRAINAGE: Good; length of principal waterway 2.1 miles.

CHARACTER OF FLOW: Spring fed intermittent.

INSTRUMENTATION: Runoff: Flow is controlled by a 3/4" steel plate weir with 5 to 1 side slopes. A float operated Stevens A-35 water level recorder is located on the left bank. The outside water level is measured with a tape from a tapedown point on the bridge. Precipitation: Three weighing type gages operating with 24 hour time scale.

WATERSHED CONDITIONS: Nearly all of the cultivated land with slope greater than 3 percent is terraced. A rotation of cotton and small grains is practiced on some of the cultivated acreage. Farm ponds control runoff from 71 percent of the drainage area. The land use in 1974 was sowed crop - 22 percent; row crop - 9 percent; timbered pasture - 6 percent; timber - 3 percent; pasture - 51 percent; farmsteads - 3 percent; farm ponds - 3 percent; farm roads - 2 percent and highways - 1 percent.

GENERALLY REPRESENTS: Mixed cover Reddish Prairie npland with extensive farm pond coverage and moderate to severe erosion in southwestern Oklahoma.

MONTHLY PRECIPITATION AND RUNOFF (inches)						CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	3.13	0.56	5.74	2.63	5.05	5.14	2.19	2.72	6.21	2.94	2.27	0.28	38.86			
	Q	0.453	0.099	1.825	0.712	0.911	2.051	0.056	0.179	0.098	0.220	0.373	0.072	7.050			
STA AV	P	3.13	0.56	5.74	2.63	5.05	5.14	2.19	2.72	6.21	2.94	2.27	0.28	38.86			
	Q	0.453	0.099	1.825	0.712	0.911	2.051	0.056	0.179	0.098	0.220	0.373	0.072	7.050			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 2	0.126	6- 2	0.114	6- 2	0.207	6- 2	0.459	6- 2	0.678	6- 2	0.865	6- 1	1.051	5-30	2.318
MAXIMUMS FOR PERIOD OF RECORD																	
		6- 2	0.126	6- 2	0.114	6- 2	0.207	6- 2	0.459	6- 2	0.678	6- 2	0.865	6- 1	1.051	5-30	2.318
		1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed Conditions: Same as described in previous section under WATERSHED CONDITIONS. Precipitation data obtained from a Thiessen weighted average from rain gages 61, 62 and 69 on or near the watershed. Precipitation records began Oct. 1961. Runoff records began August 1972. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1973	DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA			WATERSHED 515 NEAR AMBER			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.22	0.0	0.0	0.60	0.0	0.0	0.26	0.0	0.0	0.0
2	0.40	0.0	0.0	0.27	0.0	2.04	0.0	0.0	0.0	0.0	0.0	0.0
3	0.72	0.0	0.07	0.03	0.0	0.0	0.0	0.0	0.23	0.34	0.0	0.28
4	0.0	0.0	0.0	0.0	0.0	1.38	0.02	0.0	0.26	0.36	0.0	0.0
5	0.0	0.0	0.04	0.0	0.01	0.0	0.01	0.0	0.33	0.16	0.0	0.0
6	0.28	0.0	1.11	0.0	0.72	0.0	0.0	0.0	1.05	0.04	0.02	0.0
7	0.14	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.01	0.0
8	0.0	0.0	0.14	0.38	0.0	0.0	0.0	0.0	0.30	0.0	0.01	0.0
9	0.0	0.0	0.01	0.0	0.0	0.0	0.0	2.37	0.0	0.0	0.0	0.0
10	0.0	0.0	0.88	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.03	0.01	0.0	0.0	0.90	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.91	0.65	0.0	0.0
13	0.0	0.0	0.03	0.10	0.0	0.01	0.24	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.08	0.03	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.82	0.0	0.0	0.0	0.27	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.62	0.0	0.0	0.0
18	0.0	0.02	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.56	0.0	0.39	0.0	0.0	0.0	0.0	0.73	0.0
20	0.01	0.0	0.0	0.0	0.0	0.0	0.32	0.0	0.0	0.0	0.04	0.0
21	0.71	0.0	0.0	0.0	0.10	0.0	0.12	0.0	0.0	0.0	0.0	0.0
22	0.0	0.20	0.0	0.47	0.85	0.0	0.29	0.0	0.01	0.0	0.0	0.0
23	0.0	0.0	1.72	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.26	0.0
24	0.0	0.0	0.94	0.0	0.99	0.0	0.0	0.0	0.01	0.0	1.11	0.0
25	0.44	0.05	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.68	0.42	0.0	0.0
27	0.0	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.48	0.07	0.09	0.0
28	0.0	0.0	0.0	0.0	0.0	0.10	0.19	0.08	0.0	0.0	0.0	0.0
29	0.0	0.0	0.03	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.30	0.0	0.69	0.0	0.44	0.0	0.0	0.0	0.0	0.0
31	0.18	0.0	0.0	0.0	1.53	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL	3.13	0.56	5.74	2.63	5.05	5.14	2.19	2.72	6.21	2.94	2.27	0.28
STA AV	3.13	0.56	5.74	2.63	5.05	5.14	2.19	2.72	6.21	2.94	2.27	0.28

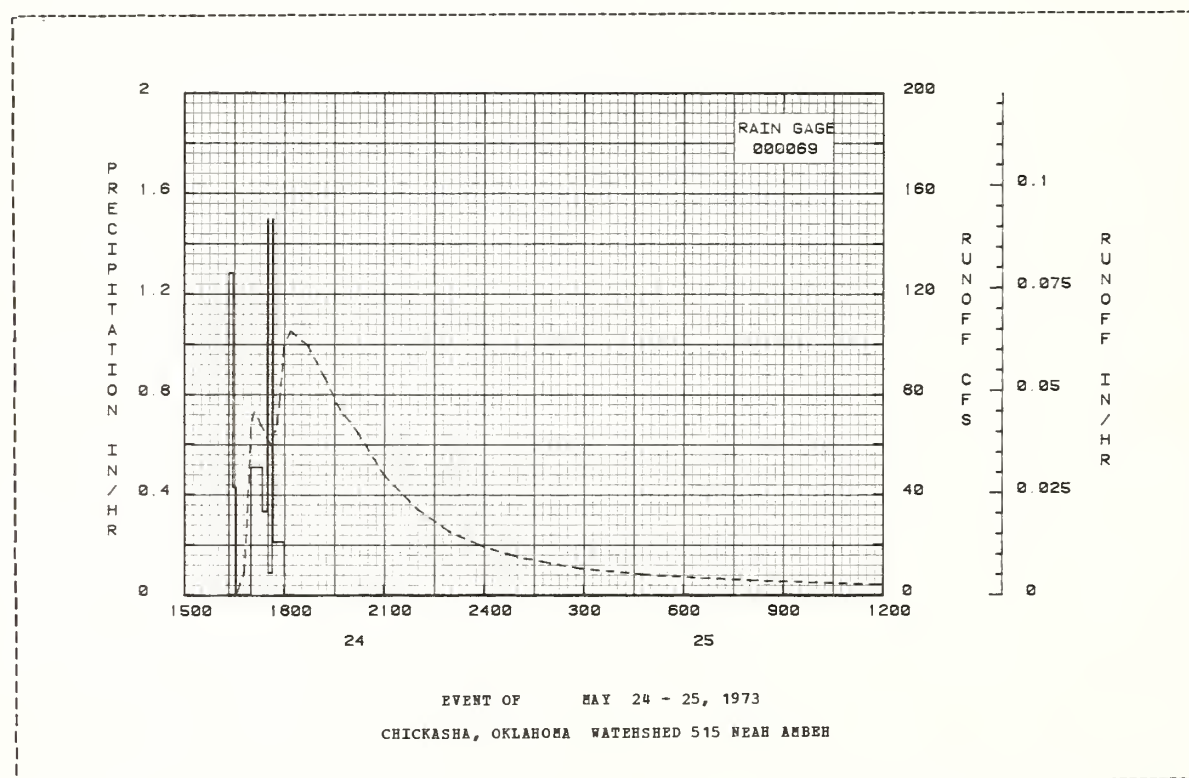
NOTES: For daily air temperature in the vicinity, see table for Watershed W-700 (69.007) of this publication. Daily precipitation values Thiessen weighted average from rain gages 61, 62 and 69 on or near the watershed. STA AV based on 1973 record period.

1973	MEAN DAILY DISCHARGE (cfs)					CHICKASHA, OKLAHOMA			WATERSHED 515 NEAR AMBER			
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.194	0.536	0.196	1.256	0.411	11.684	0.206	0.090	0.010	0.094	0.092	0.319
2	0.361	0.369	0.196	1.001	0.299	60.025	0.124	0.055	0.010	0.062	0.072	0.285
3	1.445	0.297	0.177	1.277	0.280	7.855	0.110	0.050	0.014	0.059	0.070	0.276
4	0.766	0.337	0.192	0.791	0.280	23.726	0.117	0.051	0.042	0.096	0.070	0.254
5	0.355	0.324	0.169	0.541	0.272	21.778	0.152	0.059	0.091	0.066	0.070	0.246
6	0.259	0.320	8.443	0.490	1.303	4.647	0.100	0.060	0.129	0.060	0.070	0.221
7	0.250	0.315	2.026	0.564	0.756	2.549	0.090	0.059	0.054	0.059	0.070	0.199
8	0.244	0.290	0.792	0.839	0.359	1.489	0.090	0.054	0.039	0.051	0.070	0.174
9	0.206	0.315	0.447	0.732	0.281	0.952	0.104	11.072	0.031	0.050	0.070	0.170
10	0.196	0.320	21.992	0.584	0.254	0.739	0.177	0.230	0.030	0.050	0.070	0.170
11	0.171	0.320	4.247	0.526	0.246	0.621	0.130	0.077	0.030	4.017	0.070	0.170
12	0.159	0.305	1.492	0.520	0.221	0.532	0.075	0.059	0.664	4.527	0.070	0.170
13	0.200	0.211	0.826	0.520	0.202	0.526	0.117	0.051	0.257	2.566	0.070	0.167
14	0.272	0.174	0.532	0.520	0.196	0.552	0.210	0.050	0.030	0.966	0.070	0.150
15	0.497	0.170	0.362	4.637	0.174	0.485	0.229	0.055	0.031	0.460	0.070	0.132
16	0.921	0.170	0.289	4.414	0.165	0.436	0.121	0.081	0.042	0.266	0.070	0.130
17	1.540	0.174	0.276	1.645	0.135	0.430	0.072	0.062	0.062	0.206	0.070	0.132
18	0.825	0.196	0.250	1.025	0.130	0.420	0.106	0.051	0.045	0.194	0.070	0.142
19	0.462	0.196	0.224	7.696	0.130	0.855	0.122	0.047	0.046	0.151	0.429	0.115
20	0.385	0.174	0.220	7.591	0.130	0.366	0.095	0.032	0.031	0.112	0.600	0.110
21	5.984	0.167	0.220	2.231	0.130	0.319	0.092	0.029	0.021	0.090	0.206	0.112
22	2.954	0.161	0.215	3.105	0.201	0.281	0.107	0.020	0.020	0.072	0.169	0.127
23	1.189	0.209	9.670	2.606	0.737	0.244	0.110	0.011	0.021	0.070	0.376	0.130
24	0.672	0.199	41.867	1.187	17.166	0.180	0.112	0.010	0.027	0.070	11.910	0.130
25	0.725	0.171	17.146	0.755	5.516	0.167	0.130	0.010	0.021	0.070	5.625	0.130
26	5.338	0.152	2.981	0.621	1.276	0.155	0.147	0.010	1.585	0.077	2.489	0.127
27	2.182	0.152	2.677	0.527	0.544	0.167	0.147	0.010	2.142	0.127	1.324	0.112
28	1.015	0.171	2.754	0.479	0.301	0.176	0.132	0.010	0.825	0.165	0.721	0.110
29	0.687	0.0	1.739	0.436	0.246	0.214	0.130	0.010	0.297	0.170	0.487	0.110
30	0.576	0.0	2.206	0.430	0.477	0.220	0.130	0.010	0.155	0.165	0.362	0.107
31	0.532	0.0	2.242	0.0	30.584	0.0	0.125	0.010	0.0	0.130	0.0	0.047
MEAN	1.0182	0.2463	4.0990	1.6516	2.0453	4.7597	0.1263	0.4028	0.2268	0.4942	0.8661	0.1606
INCHES	0.453	0.099	1.825	0.712	0.911	2.051	0.056	0.179	0.098	0.220	0.373	0.072
STA AV	0.453	0.099	1.825	0.712	0.911	2.051	0.056	0.179	0.098	0.220	0.373	0.072

NOTES: To convert runoff in CFS to IN/DAY, multiply by 0.01469. Discharge rating curve estimated for flows greater than 60 CFS.

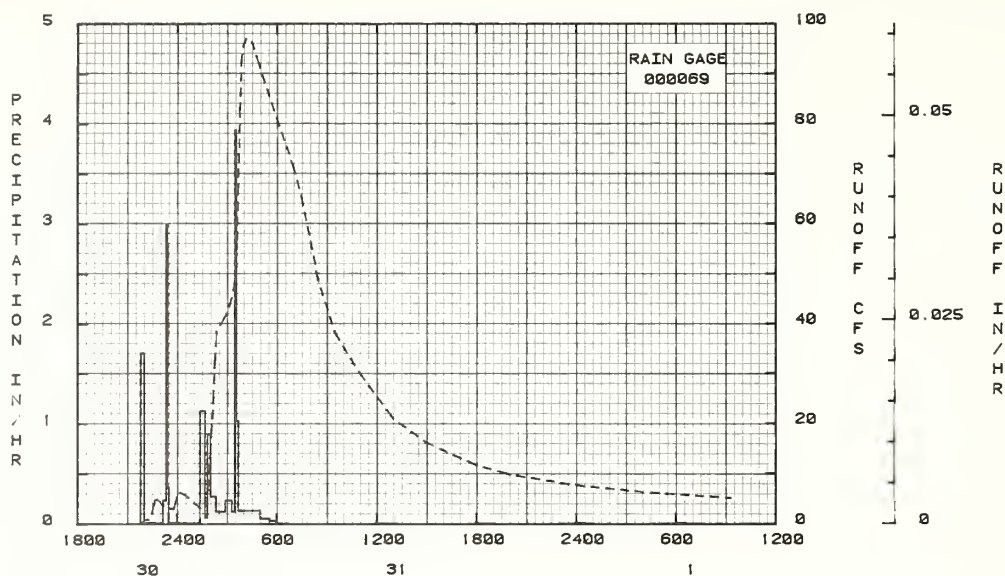
1973 SELECTED HUMOFF EVENT			CHICKASHA, OKLAHOMA WATSHED 515 NEAR AMBEH							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Hunoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973										
5-24	HG 000069			RG 000069						
	0.0	0.002	5-24	1620	0.0	0.0	5-24	1623	0.290	0.0
				1627	1.2857	0.15		1630	0.280	0.0000
				1634	0.4286	0.20		1636	1.510	0.0001
				1700	0.0	0.20		1641	4.840	0.0002
				1720	0.5100	0.37		1648	9.000	0.0007
				1729	0.3333	0.42		1653	29.990	0.0017
				1731	1.5000	0.47		1700	66.840	0.0051
				1738	0.0857	0.48		1706	73.210	0.0092
				1740	1.5000	0.53		1723	65.700	0.0210
				1800	0.2100	0.60		1736	59.750	0.0291
								1748	69.130	0.0369
								1753	80.450	0.0406
								1800	99.780	0.0469
								1811	105.230	0.0581
								1841	99.780	0.0888
								1911	87.330	0.1168
								1941	73.800	0.1409
								2011	65.140	0.1617
								2100	47.840	0.1893
								2200	34.140	0.2138
								2300	24.800	0.2315
								2400	19.010	0.2446
							5-25	100	15.080	0.2548
								200	12.550	0.2631
								300	10.280	0.2699
								500	7.820	0.2807
								800	5.740	0.2929
								1200	3.870	0.3044

NOTES: To convert runoff in CFS to I²/HH, multiply by 0.000612.



1973			SELECTED RUNOFF EVENT									CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER								
ANTECEDENT CONDITIONS			Date			RAINFALL			Date			RUNOFF			Acc.			Date		
Mo-Day	Rainfall (inches)	Runoff (inches)	Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)	Mo-Day	Time of Day
EVENT OF MAY 30 - JUNE 1, 1973																				
RG 000069			RG 000069																	
5-30	0.0	0.003	5-30	2148	0.0	0.0	5-30	2148	0.250	0.0										
				2202	1.7143	0.40		2200	0.520	0.0001										
				2310	0.0088	0.41		2211	0.910	0.0001										
				2320	0.2400	0.45		2218	0.910	0.0002										
				2325	3.0000	0.70		2230	2.200	0.0004										
WATERSHED CONDITIONS:																				
From a 1974 survey: sowed																				
crop - 22%; row crop - 9%;																				
pasture - 51%; and miscel-																				
laneous - 18%.																				
			5-31	2330	0.3600	0.73		2241	4.840	0.0008										
				122	0.0107	0.75		2248	5.010	0.0011										
				140	1.1333	1.09		2311	3.580	0.0021										
				150	0.0600	1.10		2348	2.900	0.0033										
				200	0.9000	1.25		2400	5.550	0.0038										
				220	0.2700	1.34	5-31	11	6.320	0.0045										
				255	0.1200	1.41		41	5.190	0.0062										
				318	0.2348	1.50		123	3.160	0.0079										
				328	0.1200	1.52		148	3.870	0.0088										
				335	3.9429	1.98		153	8.760	0.0091										
				342	1.0286	2.10		200	14.420	0.0099										
				500	0.1308	2.27		206	19.780	0.0110										
				535	0.0514	2.30		211	25.250	0.0121										
				600	0.0240	2.31		218	34.140	0.0141										
								223	38.600	0.0160										
								300	42.160	0.0309										
								318	45.260	0.0387										
								330	49.160	0.0444										
								336	55.370	0.0475										
								341	67.980	0.0506										
								348	84.170	0.0559										
								353	92.490	0.0603										
								400	95.770	0.0668										
								411	97.100	0.0774										
								430	96.430	0.0958										
								500	91.180	0.1238										
								600	81.060	0.1754										
								700	71.450	0.2210										
								730	65.140	0.2415										
								830	48.500	0.2755										
								930	38.020	0.3014										
								1100	29.990	0.3319										
								1300	20.970	0.3624										
								1500	16.100	0.3846										
								1800	11.670	0.4095										
								2000	9.760	0.4223										
								2400	7.590	0.4431										
							6- 1	430	6.120	0.4616										
								918	5.010	0.4776										

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000612.



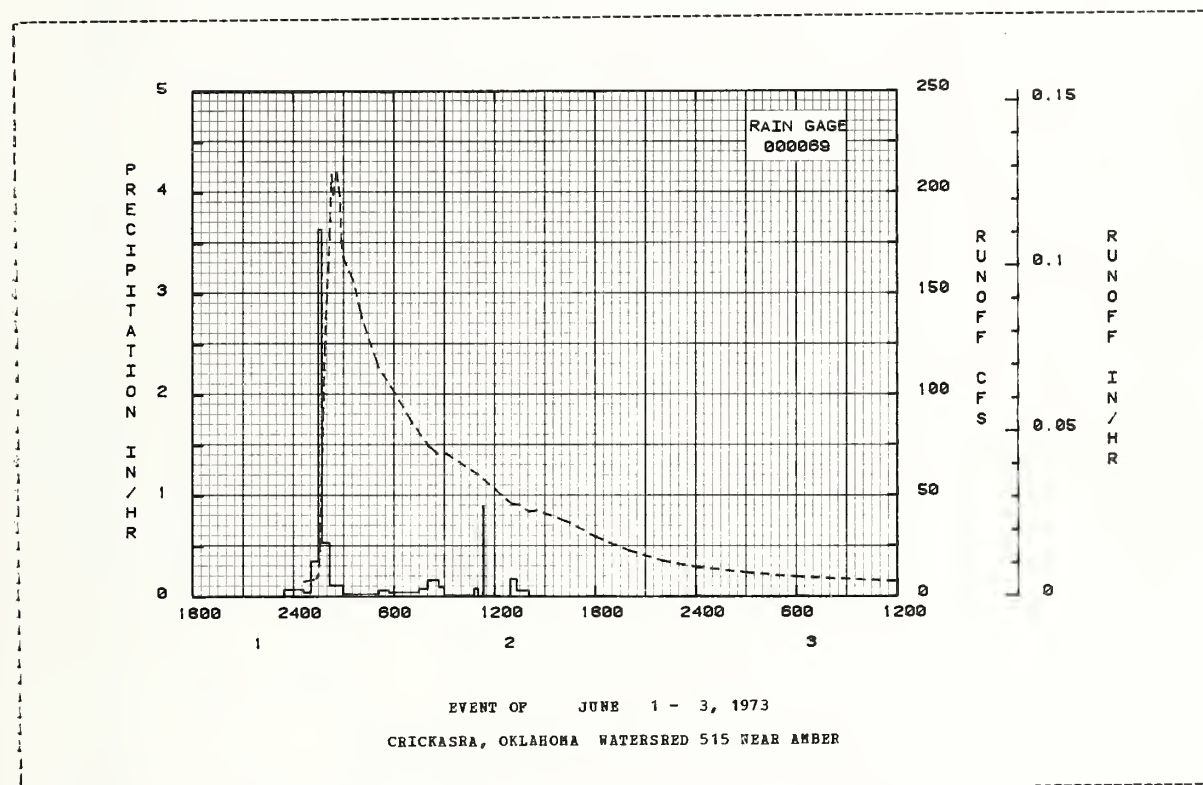
EVENT OF MAY 30 - JUNE 1, 1973
CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER

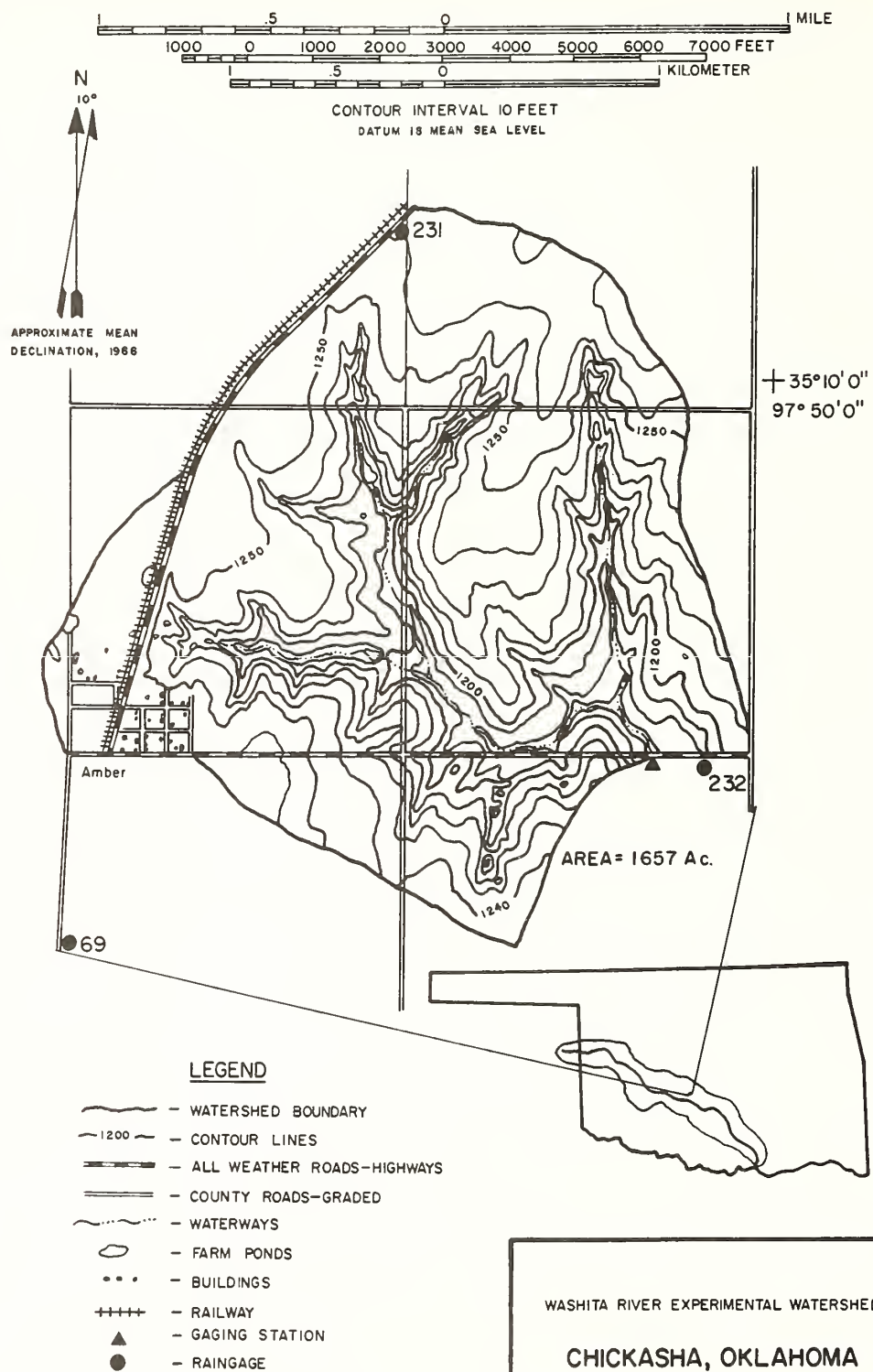
1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED 515 NEAR AMBER						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF JUNE 1 - 3, 1973									
RG 000069			BG 000069						
6- 1	0.0		6- 1	2326	0.0	0.0	6- 2	36	7.820
6- 2		0.003	6- 2	35	0.0783	0.09		111	8.760
				102	0.0444	0.11		123	9.500
				129	0.3556	0.27		130	11.670
				142	3.6462	1.06		136	25.250
WATERSHED CONDITIONS: From a 1974 survey: sowed crop -22%; row crop - 9%; pasture - 51%; and miscel- laneous - 18%.				210	0.5357	1.31		141	57.530
				258	0.1125	1.40		148	93.790
				505	0.0236	1.45		153	123.040
				542	0.0649	1.49		200	145.960
				730	0.0389	1.56		206	162.150
				800	0.0800	1.60		211	179.050
				840	0.1650	1.71		218	209.410
				900	0.0900	1.74		223	199.370
				1045	0.0114	1.76		236	210.330
				1100	0.0800	1.78		248	198.460
				1118	0.0	1.78		253	176.470
				1120	0.9000	1.81		300	167.990
				1255	0.0	1.81		336	156.400
				1319	0.1750	1.88		406	138.140
				1402	0.0558	1.92		506	113.630
				1820	0.0	1.92		606	100.450
								706	86.060
								806	74.400
								836	70.860
								906	70.860
								1100	60.500
								1300	45.900
								1330	45.260
								1400	42.160
								1430	42.770

NOTES: To convert runoff in cfs to in/hr, multiply by 0.000612.

1973 SELECTED RUNOFF EVENT			CRICKASRA, OKLAHOMA WATERSHED 515 NEAR AMBER							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JUNE 1 - 3, 1973 (CONTINUED)										
							6- 2	1630	36.330	0.7555
								1800	29.500	0.7850
								2000	22.630	0.8162
								2200	17.520	0.8403
								2400	14.420	0.8594
							6- 3	300	11.670	0.8828
								600	9.500	0.9018
								1200	7.150	0.9317
								1800	5.370	0.9542

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.000612.





CHICKASHA, OKLAHOMA WATERSHED C-1

LOCATION: Grady County, Oklahoma; SW 1/4 sec. 26, R. 7 W., T. 7 N., about 2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 46 sec. N.; Long. 97 deg. 54 min. 39 sec. W.

AREA: 17.83 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-1	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	3.32	0.51	6.20	2.40	7.14	5.01	3.67	1.56	7.52	3.03	2.06	0.12	42.54	
	Q	0.950	0.0	1.831	0.243	0.648	0.286	0.024	0.001	0.371	0.055	0.015	0.0	4.424	
STA AV	P	1.01	1.03	2.06	2.91	3.97	2.65	1.85	3.31	4.17	2.99	1.30	0.87	28.11	
	Q	0.106	0.002	0.208	0.159	0.310	0.222	0.041	0.336	0.335	0.499	0.235	0.059	2.509	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval							
		Date	Date	Date	Vol.	Date	Vol.	6 Hours	12 Hours	1 Day	2 Days	8 Days			
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Date	Vol.	Vol.
1973		5-24	0.116	3-10	0.085	3-10	0.164	3-10	0.382	3-10	0.572	3-23	0.664	3-23	1.180
MAXIMUMS FOR PERIOD OF RECORD															
		5-24	0.116	3-10	0.085	3-10	0.164	10-30	0.459	10-2	0.814	10-30	1.504	10-30	2.925
		1973		1973		1973		1972		1971		1972		1972	

NOTES: Watershed conditions: Continuous cotton - tillage during fallow period consisted of shredding stalks, disking, chiseling, spring-tooth harrowing and spike-tooth harrowing. Cotton was planted during mid-June. Tillage during the growing season consisted of rotary hoeing and cultivating. Principal drain with less than 0.05 ft. grade per 100 feet was maintained during the growing season by use of field cultivator. Cotton harvested last of December. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.30-1 and 69.30-3. Monthly precipitation values obtained from one recording rain gage, No. 173, located near the 1.5 ft. H-flume. Precipitation and runoff records began January 1, 1965. STA AV based on 9 yr (1965-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-1	
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.25	0.0	0.0	0.45	0.0	0.0	0.31	0.0	0.0	0.0	0.0		
2	0.50	0.0	0.0	0.30	0.0	2.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.71	0.0	0.19	0.02	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.12		
4	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	1.27	0.34	0.0	0.0		
5	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.57	0.18	0.0	0.0		
6	0.21	0.0	1.07	0.0	1.27	0.0	0.0	0.0	1.83	0.08	0.03	0.0	0.0		
7	0.11	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.02	0.0	0.0		
8	0.0	0.0	0.27	0.37	0.0	0.0	0.0	0.0	0.30	0.0	0.01	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.07	0.0	0.0	0.0	0.0		
10	0.0	0.0	1.28	0.0	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.95	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.98	0.50	0.0	0.0	0.0		
13	0.0	0.0	0.12	0.23	0.0	0.02	1.19	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.58	0.0	0.0	0.19	0.44	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0		
18	0.0	0.01	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.59	0.0	0.18	0.0	0.0	0.0	0.0	0.63	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.43	0.0	0.0	0.0	0.05	0.0	0.0		
21	0.74	0.0	0.0	0.0	0.02	0.0	0.18	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.07	0.0	0.21	1.28	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	1.62	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.97	0.10	2.90	0.0	0.0	0.0	0.0	0.0	1.17	0.0	0.0		
25	0.59	0.17	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	0.21	0.0	0.0	0.0		
27	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.44	0.39	0.15	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.26	0.06	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.05	0.0	0.0	0.0	0.19	0.0	0.05	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.16	0.0	0.0	1.11	0.0	0.50	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.16				1.45		0.0								
TOTAL		3.32	0.51	6.20	2.40	7.14	5.01	3.67	1.56	7.52	3.03	2.06	0.12		
STA AV		1.01	1.03	2.06	2.91	3.97	2.65	1.85	3.31	4.17	2.99	1.30	0.87		

NOTES: Values obtained from one recording rain gage, No. 173. STA AV based on 9 yr (1965-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CRICKASRA, OKLAHOMA WATERSRED C-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.057	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.151	0.0	0.0	0.0	0.0	0.0	0.0
3	0.004	0.0	0.0	0.008	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.001	0.0	0.065	0.0	0.0	0.0	0.094	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.037	0.0	0.0	0.0
8	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.021	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.002	0.0	0.0	0.0
10	0.0	0.0	0.473	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.013	0.017	0.0	0.0
13	0.0	0.0	0.001	0.0	0.0	0.0	0.015	0.0	0.050	0.005	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.001	0.0	0.0
15	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
16	0.042	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.166	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
18	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
19	0.0	0.0	0.0	0.157	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.190	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.037	0.0	0.0	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0
23	0.003	0.0	0.134	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.497	0.0	0.226	0.0	0.0	0.0	0.0	0.0	0.006	0.0
25	0.030	0.0	0.120	0.0	0.056	0.0	0.0	0.0	0.0	0.0	0.005	0.0
26	0.216	0.0	0.039	0.0	0.049	0.0	0.0	0.0	0.014	0.0	0.0	0.0
27	0.016	0.0	0.042	0.0	0.0	0.0	0.0	0.0	0.033	0.0	0.0	0.0
28	0.0	0.0	0.032	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0
29	0.001		0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.001		0.008		0.085		0.0	0.0		0.0		0.0
MEAN	0.0229	0.0	0.0442	0.0061	0.0157	0.0072	0.0006	0.0	0.0093	0.0013	0.0004	0.0
INCHES	0.950	0.0	1.831	0.243	0.648	0.286	0.024	0.001	0.371	0.055	0.015	0.0
STA AV	0.106	0.002	0.208	0.159	0.310	0.222	0.041	0.336	0.335	0.499	0.235	0.059

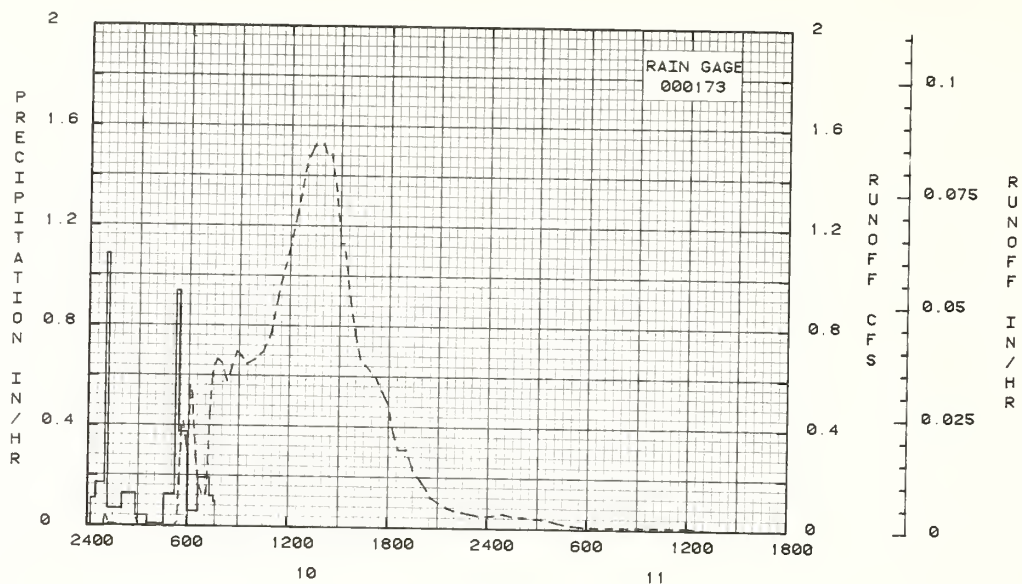
NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.334922. STA AV based on 9 yr (1965-73) record period.

1973 SELECTED RUNOFF EVENT			CRICKASRA, OKLAHOMA WATERSRED C-1							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MARCH 10 - 11, 1973										
RG 000173			RG 000173							
3-10	0.0	0.0	3-10	15	0.0	0.0	3-10	59	0.0	0.0
				31	0.1125	0.03		103	0.028	0.0001
				102	0.1742	0.12		109	0.036	0.0002
				113	1.0909	0.32		115	0.024	0.0004
				205	0.0692	0.38		119	0.008	0.0005
WATERSRED CONDITIONS:										
100% cultivation, continuous				255	0.1320	0.49		219	0.001	0.0007
dry land cotton, chiseled				337	0.0429	0.52		254	0.001	0.0007
10-14 inches deep about				437	0.0100	0.53		259	0.028	0.0008
March 1.				514	0.1297	0.61		303	0.010	0.0009
				528	0.9429	0.83		319	0.004	0.0010
				600	0.3750	1.03		409	0.001	0.0011
				640	0.0600	1.07		514	0.0	0.0011
				720	0.1950	1.20		519	0.010	0.0011
				735	0.1200	1.23		525	0.020	0.0012
				741	0.1000	1.24		529	0.179	0.0016
								539	0.398	0.0043
								544	0.416	0.0062
								552	0.346	0.0090
								559	0.298	0.0111
								605	0.416	0.0131
								609	0.557	0.0149
								615	0.535	0.0179
								629	0.283	0.0232
								643	0.157	0.0261
								652	0.127	0.0272
								709	0.127	0.0292
								714	0.283	0.0302
								719	0.454	0.0319
								729	0.624	0.0369
								744	0.672	0.0459

NOTES: To convert runoff in CFS to IN/RR, multiply by 0.05562.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED C-1		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
								Rate
								(cfs)
								Acc.
								(inches)
EVENT OF MARCH 10 - 11, 1973 (CONTINUED)								
							3-10	802
								820
								833
								854
								917
								931
								959
								1029
								1057
								1125
								1200
								1231
								1259
								1313
								1329
								1359
								1409
								1427
								1447
								1505
								1516
								1544
								1601
								1619
								1714
								1739
								1802
								1819
								1839
								1909
								1932
								1959
								2023
								2039
								2107
								2139
								2203
								2249
								2329
								2400
							3-11	59
								129
								321
								439
								549
								1200
								1329
								1649
								1847

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.05562.



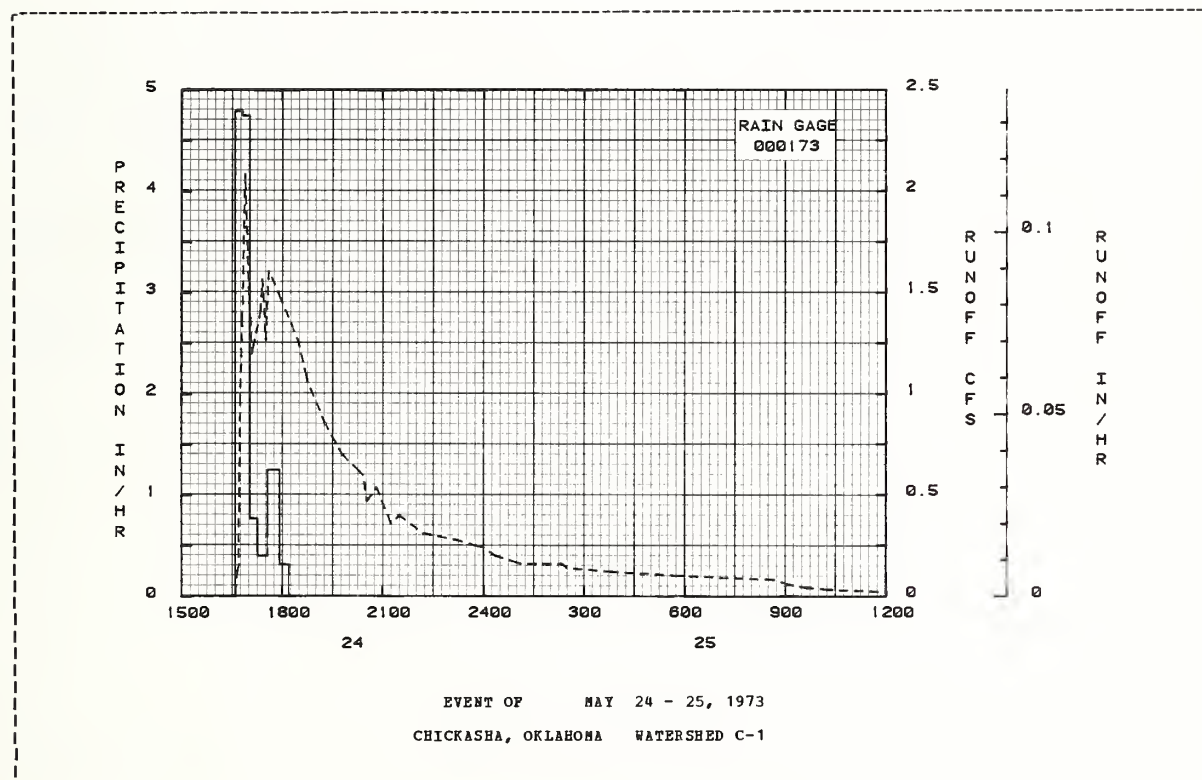
EVENT OF MARCH 10 - 11, 1973
CHICKASHA, OKLAHOMA WATERSHED C-1

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED C-1								
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF MAY 24 - 25, 1973											
5-24	RG 000173	0.0	5-24	RG 000173	0.0	0.0	5-24	1636	0.020	0.0	
				1636	0.0	0.0		1642	0.157	0.0005	
				1650	4.8000	1.12		1645	1.002	0.0021	
				1702	4.7500	2.07		1649	1.410	0.0066	
				1716	0.7714	2.25		1654	2.090	0.0147	
				1734	0.4000	2.37					
				1755	1.2571	2.81		1701	1.490	0.0263	
				1812	0.3176	2.90		1706	1.197	0.0325	
								1711	1.270	0.0382	
								1721	1.410	0.0506	
								1725	1.570	0.0562	
								1731	1.270	0.0641	
								1736	1.610	0.0707	
								1801	1.450	0.1062	
								1828	1.270	0.1403	
								1846	1.065	0.1597	
								1916	0.855	0.1864	
								1948	0.697	0.2094	
								2025	0.601	0.2317	
								2032	0.473	0.2352	
								2049	0.535	0.2431	
								2115	0.363	0.2540	
								2129	0.396	0.2589	
								2213	0.314	0.2734	
								2309	0.283	0.2889	
								2400	0.241	0.3013	
							5-25	21	0.203	0.3056	
								107	0.157	0.3133	
								221	0.157	0.3241	
								229	0.137	0.3252	
								347	0.118	0.3344	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.05562.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA				WATERSHED C-1			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973 (CONTINUED)										
							5-25	556	0.101	0.3475
								840	0.078	0.3611
								900	0.058	0.3623
								936	0.036	0.3639
								1024	0.028	0.3653
								1200	0.016	0.3673
								1241	0.010	0.3678
								1404	0.013	0.3687
								1511	0.013	0.3695
								1531	0.028	0.3699
								1551	0.020	0.3703
								1611	0.013	0.3706
								1711	0.006	0.3711
								1751	0.008	0.3714
								1810	0.013	0.3716
								1901	0.008	0.3721
								1937	0.004	0.3723
								2004	0.010	0.3725
								2024	0.024	0.3728
								2058	0.013	0.3734
								2231	0.010	0.3743
								2321	0.028	0.3752
								2331	0.013	0.3754
								2400	0.013	0.3758

NOTES: To convert runoff in CFS to IN/HH, multiply by 0.05562.



CHICKASHA, OKLAHOMA WATERSHED C-2

LOCATION: Grady County, Oklahoma; SE 1/4, sec. 4, R. 8 W., T. 7 N., about 6 miles West and 4 miles North of Chickasha Oklahoma; Washita River Basin. Lat. 35 deg. 06 min. 25 sec. N.; Long. 98 deg. 02 min. 34 sec. W.

AREA: 38.10 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA WATERSHED C-2												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	2.64	0.47	4.97	2.61	4.72	4.79	3.14	1.19	6.63	3.32	1.64	0.33	36.45					
	Q	0.001	0.0	0.060	0.004	0.124	0.246	0.0	0.000	0.022	0.123	0.004	0.0	0.585					
STA AV	P	0.83	0.93	1.63	2.78	3.49	3.01	1.81	2.49	3.57	2.28	1.64	0.83	25.31					
	Q	0.000	0.0	0.005	0.020	0.072	0.071	0.0	0.004	0.006	0.020	0.000	0.015	0.213					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		6- 2	0.095	6- 2	0.079	6- 2	0.131	6- 2	0.217	6- 2	0.243	6- 2	0.245	5-31	0.245	5-25	0.248		
MAXIMUMS FOR PERIOD OF RECORD																			
		4-12	0.099	6- 2	0.079	6- 2	0.131	5- 5	0.225	5- 4	0.294	5- 6	0.375	5- 5	0.550	5- 3	0.728		
		1967		1973		1973		1969		1969		1969		1969		1969			

NOTES: Watershed conditions: 100% cropland. Entire watershed seeded to wheat in the fall of 1972 and harvested in mid-June 1973. Area changed from 32.54 to 38.10 acres for 1973 because the watershed was farmed in such a way that an additional 5.56 acres drained into the watershed. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.31-1 and 69.31-3. Monthly precipitation values obtained from one weighing type rain gage, No. 174. Precipitation and runoff records began May 1, 1962. STA AV based on 12 yr (1962-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1973		DAILY PRECIPITATION (inches)					CHICKASHA, OKLAHOMA WATERSHED C-2						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.15	0.0	0.0	0.50	0.0	0.0	0.18	0.0	0.0	0.0	
2	0.52	0.0	0.0	0.27	0.0	2.52	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.68	0.0	0.04	0.09	0.0	0.0	0.0	0.0	0.03	0.38	0.0	0.33	
4	0.0	0.0	0.0	0.0	0.0	0.24	0.0	0.0	0.22	0.43	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.40	0.14	0.0	0.0	
6	0.24	0.0	0.62	0.0	0.18	0.0	0.0	0.0	1.45	0.04	0.03	0.0	
7	0.11	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.01	0.0	
8	0.0	0.0	0.22	0.48	0.0	0.0	0.0	0.0	0.54	0.0	0.01	0.0	
9	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	
10	0.0	0.0	1.21	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.47	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.65	0.0	0.0	
13	0.0	0.0	0.04	0.32	0.0	0.02	0.40	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.82	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	
18	0.0	0.03	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.39	0.0	0.29	0.0	0.0	0.0	0.0	0.31	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.78	0.0	0.0	0.0	0.04	0.0	
21	0.35	0.0	0.0	0.0	0.25	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.10	0.0	0.16	2.24	0.0	0.28	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	1.51	0.0	0.10	0.0	0.18	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.63	0.25	0.25	0.0	0.0	0.0	0.0	0.0	1.08	0.0	
25	0.41	0.07	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.0	0.0	
26	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.22	0.0	0.0	0.0	
27	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.05	0.21	0.16	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.21	0.25	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.02	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.31	0.0	0.0	0.19	0.0	0.32	0.0	0.0	0.0	0.0	0.0	
31	0.15		0.0		1.51		0.0	0.07		0.0		0.0	
TOTAL	2.64	0.47	4.97	2.61	4.72	4.79	3.14	1.19	6.63	3.32	1.64	0.33	
STA AV	0.83	0.93	1.63	2.78	3.49	3.01	1.81	2.49	3.57	2.28	1.64	0.83	

NOTES: Values obtained from one weighing type rain gage, No. 174. STA AV based on 12 yr (1962-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0 T	0.0	0.0	0.0	0.393	0.0	0.0	0.0	0.0	0.0	0.0
3	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.029	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.173	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.023	0.0	0.0
13	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.006	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0 T	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0 T	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.074	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.040	0.0	0.121	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.028	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.035	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0	0.0	0.0031	0.0002	0.0064	0.0131	0.0	0.0	0.0012	0.0063	0.0002	0.0
INCHES	0.001	0.0	0.060	0.004	0.124	0.246	0.0	0.000	0.022	0.123	0.004	0.0
STA AV	0.000	0.0	0.005	0.020	0.072	0.071	0.0	0.004	0.006	0.020	0.000	0.015

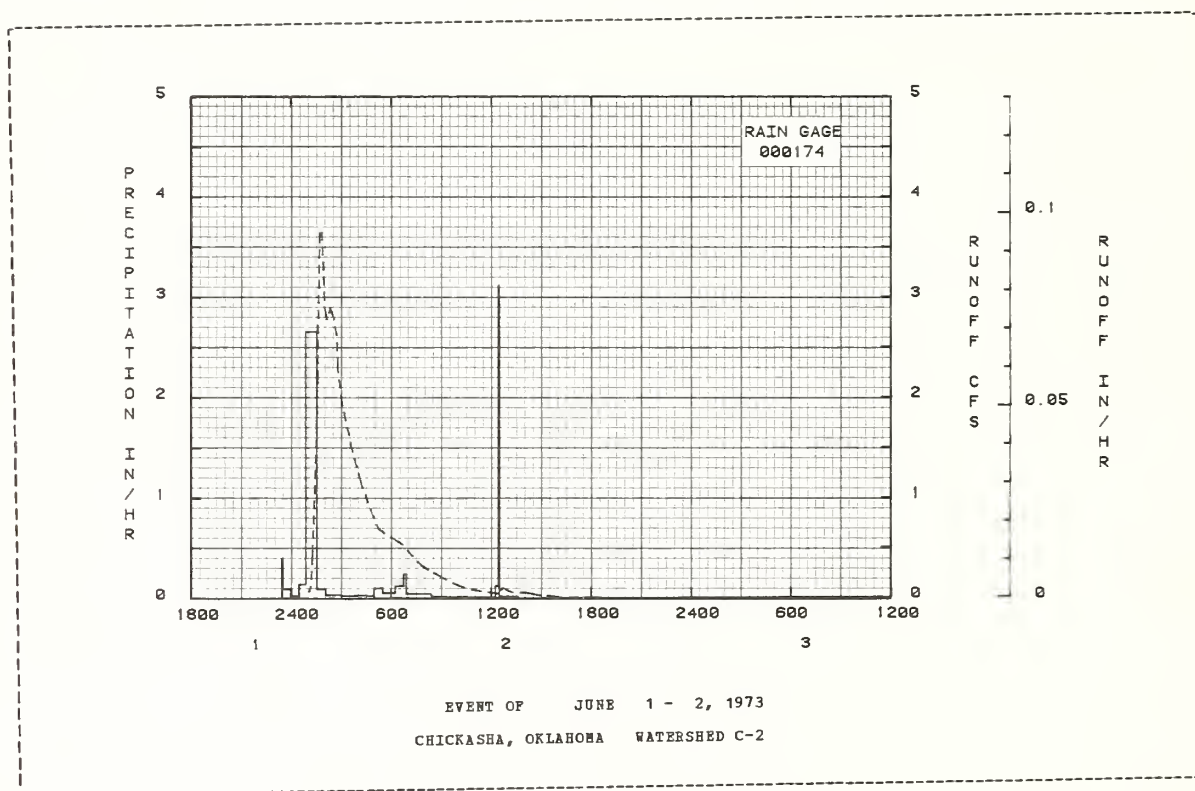
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.624715. STA AV based on 12 yr (1962-73) record period.

1973	SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA				WATERSHED C-2			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 1 - 2, 1973											
BG 000174			RG 000174								
6- 1	0.0		6- 1	2327	0.0	0.0	6- 2	53	0.0	0.0	
6- 2		0.000		2330	0.4000	0.02		59	0.003	0.0001	
				2350	0.0900	0.05		105	0.070	0.0001	
			6- 2	3	0.0923	0.07		111	0.119	0.0004	
				28	0.0240	0.08		117	0.392	0.0011	
WATERSHED CONDITIONS:				53	0.1440	0.14		119	0.530	0.0015	
100% cropland.				132	2.6615	1.87		133	1.700	0.0082	
				205	0.0909	1.92		136	2.200	0.0108	
				300	0.0327	1.95		144	3.650	0.0209	
				350	0.0240	1.97		152	3.650	0.0336	
				430	0.0300	1.99		202	2.900	0.0478	
				500	0.0200	2.00		210	2.780	0.0577	
				530	0.1000	2.05		222	2.900	0.0724	
				615	0.0533	2.09		235	2.780	0.0885	
				645	0.1200	2.15		245	2.620	0.1002	
				655	0.2400	2.19		250	2.250	0.1055	
				825	0.0400	2.25		305	1.920	0.1190	
				1030	0.0096	2.27		343	1.460	0.1469	
				1215	0.0057	2.28		419	1.100	0.1669	
				1225	0.1200	2.30		459	0.798	0.1833	
				1230	3.1200	2.56		515	0.693	0.1885	
				1335	0.0092	2.57		642	0.530	0.2116	
								750	0.323	0.2242	
								919	0.183	0.2339	
								1023	0.101	0.2379	
								1056	0.085	0.2392	
								1200	0.050	0.2411	
								1225	0.039	0.2416	
								1235	0.077	0.2418	
								1243	0.101	0.2421	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.026030.

CHICKASHA, OKLAHOMA WATERSHED C-2									
1973 SELECTED RUNOFF EVENT									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF JUNE 1 - 2, 1973 (CONTINUED)									
				6- 2	1252	0.077			0.2425
					1317	0.050			0.2432
					1403	0.045			0.2441
					1454	0.017			0.2448
					1544	0.010			0.2451
					1614	0.005			0.2452
					1714	0.001			0.2453
					1754	0.0			0.2453
					1831	0.0			0.2453

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.026030.



CRICKASRA, OKLAHOMA WATERSHED C-3

LOCATION: Grady County, Oklahoma; NE 1/4 sec. 35, R. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 25 sec. N.; Long. 97 deg. 54 min. 13 sec. W.

AREA: 44.26 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASRA, OKLAHOMA				WATERSRED C-3				
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annnaal	
1973	P	3.31	0.54	6.38	2.27	6.60	4.68	3.42	1.81	7.04	2.75	1.88	0.12	40.80	
	Q	0.709	0.0	1.385	0.062	2.600	1.889	0.274	0.083	1.128	0.247	0.154	0.0	8.530	
STA AV	P	0.99	1.06	2.15	2.94	3.88	2.37	2.05	2.58	4.08	2.97	1.26	0.82	27.15	
	Q	0.096	0.009	0.206	0.380	0.781	0.570	0.248	0.400	0.537	0.584	0.102	0.023	3.935	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		5-24	0.381	5-24	0.376	5-24	0.729	5-24	1.498	5-24	1.829	5-24	1.844	5-23	1.846
														5-24	2.563
MAXIMUMS FOR PERIOD OF RECORD															
		5-31	0.556	5-31	0.451	5-24	0.729	5-24	1.498	5-24	1.829	10-30	2.227	10-30	2.585
		1971		1971		1973		1973		1973		1972		1972	
														10-24	2.585
														1972	

NOTES: Watershed conditions: 100% cropland, previously graded and smoothed for row irrigation. Entire watershed disked and moldboard plowed 10-12 inches deep in Feb. 1973. Spring preplanting tillage consisted of disking, spring-tooth harrowing, incorporating fertilizer and herbicide. Entire watershed planted to cotton during early June. Tillage during growing season consisted of rotary hoeing and cultivating with sweep type cultivator as needed. No irrigation in 1973, cotton harvested mid-Dec. 1973. For general description and map of watershed, see Hydrologic data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.32-1 and 69.32-3. Monthly precipitation data obtained from two recording weighing type rain gages, No. 186 and Cotton Research station gage. Precipitation and runoff records began September 1, 1965. STA AV based on 9 yr (1965-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)													
CHICKASRA, OKLAHOMA WATERSHED C-3													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.29	0.0	0.0	0.42	0.0	0.0	0.30	0.0	0.0	0.0	0.0
2	0.50	0.0	0.0	0.34	0.0	1.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.66	0.0	0.16	0.02	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.12	
4	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	1.09	0.34	0.0	0.0	
5	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.49	0.19	0.0	0.0	
6	0.33	0.0	1.26	0.0	1.02	0.0	0.0	0.0	1.75	0.05	0.02	0.0	
7	0.20	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.0	0.02	0.0	
8	0.0	0.0	0.27	0.33	0.0	0.0	0.0	0.0	0.28	0.0	0.01	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.25	0.0	0.0	0.0	0.0	
10	0.0	0.0	1.31	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.87	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.95	0.42	0.0	0.0	
13	0.0	0.0	0.15	0.20	0.0	0.03	1.14	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.52	0.0	0.0	0.05	0.38	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	
18	0.0	0.03	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.55	0.0	0.11	0.0	0.0	0.0	0.0	0.67	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	0.05	0.0	
21	0.75	0.0	0.0	0.0	0.02	0.0	0.18	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.09	0.0	0.21	1.22	0.0	0.61	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	1.65	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.89	0.10	2.70	0.0	0.0	0.0	0.0	0.0	1.00	0.0	
25	0.48	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.29	0.25	0.0	0.0	
27	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.36	0.34	0.11	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.29	0.03	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.0	0.05	0.0	0.0	0.16	0.0	0.18	0.0	0.0	0.0	0.0	
30	0.0	0.16	0.0	0.0	0.13	0.0	0.48	0.0	0.0	0.0	0.0	0.0	
31	0.16	0.0	0.0	0.0	1.40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.31	0.54	6.38	2.27	6.60	4.68	3.42	1.81	7.04	2.75	1.88	0.12	
STA AV	0.99	1.06	2.15	2.94	3.88	2.37	2.05	2.58	4.08	2.97	1.26	0.82	

NOTES: Values obtained from two recording weighing type rain gages, No. 186 and Cotton Research Station gage. STA AV based on 9 yr (1965-73) record period.

1973 MEAN DAILY DISCHARGE (cfs)												CHICKASHA, OKLAHOMA WATERSHED C-3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.0	0.0	0.0	0.404	0.0	0.0	0.0	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.012	0.0	2.593	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.147	0.0	0.0	0.038	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0	
4	0.0 T	0.0	0.0	0.001	0.0	0.397	0.0	0.0	0.019	0.008	0.0	0.0	
5	0.0	0.0	0.0	0.0	0.0	0.072	0.0	0.0	0.0 T	0.0 T	0.0	0.0	
6	0.0	0.0	0.096	0.0	0.086	0.0	0.0	0.0	0.970	0.001	0.0	0.0	
7	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.056	0.0	0.0	0.0	
8	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.066	0.0	0.0	0.0	
9	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.155	0.0	0.0	0.0	0.0	
10	0.0	0.0	0.278	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.261	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.169	0.177	0.0	0.0	
13	0.0	0.0	0.001	0.0	0.0	0.0	0.318	0.0	0.330	0.011	0.0	0.0	
14	0.0	0.0	0.0 T	0.0	0.0	0.0	0.120	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
16	0.298	0.0	0.0	0.001	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.078	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.048	0.0	0.002	0.0	0.0	0.0	0.0	0.003	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.055	0.0	0.0	0.0	0.003	0.0	
21	0.502	0.0	0.0	0.0	0.0	0.0	0.015	0.0	0.0	0.0	0.0	0.0	
22	0.0 T	0.0	0.0	0.0	0.071	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.714	0.0	0.305	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	1.355	0.0	2.995	0.0	0.0	0.0	0.0	0.0	0.255	0.0	
25	0.029	0.0	0.110	0.0	0.438	0.0	0.0	0.0	0.0	0.0	0.025	0.0	
26	0.265	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.249	0.0	0.0 T	0.0	
27	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.238	0.001	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.0	0.0	0.002	0.0	0.941	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
MEAN	0.0425	0.0	0.0831	0.0038	0.1560	0.1171	0.0164	0.0050	0.0699	0.0148	0.0095	0.0	
INCHES	0.709	0.0	1.385	0.062	2.600	1.889	0.274	0.083	1.128	0.247	0.154	0.0	
STA AV	0.096	0.009	0.206	0.380	0.781	0.570	0.248	0.400	0.537	0.584	0.102	0.023	

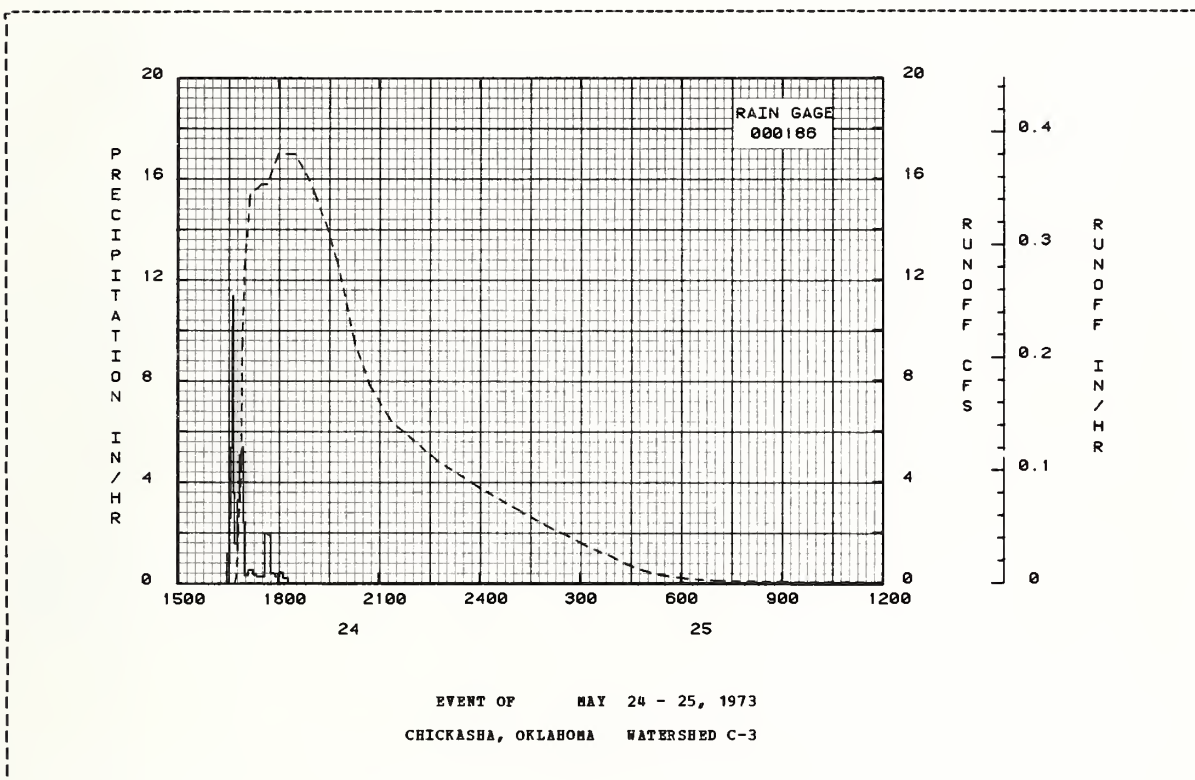
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.537769. STA AV based on 9 yr (1965-73) record period.

1973 SELECTED HUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED C-3							
ANTECEDENT CONDITIONS			RAINFALL				HUNOFF			
Date	Rainfall	Hunoff	Date	Time	Intensity	Acc.	Date	Time	Hate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973										
RG 000186			RG 000186							
5-24	0.0	0.0	5-24	1629	0.0	0.0	5-24	1643	0.0	0.0
				1630	1.2000	0.02		1646	0.393	0.0002
				1633	0.8000	0.06		1649	2.028	0.0016
				1636	2.6000	0.19		1654	4.426	0.0076
				1638	5.3988	0.37		1656	9.434	0.0128
WATERSHED CONDITIONS: 100% cultivation, continuous irrigated cotton. Mold board plowed 10-12 inches deep in February, disk harrowed and spring- toothed 4 inches deep in April 1, cotton planted May 15-16.				1639	10.2025	0.54		1700	12.530	0.0292
				1640	11.4028	0.73		1710	15.410	0.0813
				1642	3.6000	0.85		1730	15.800	0.1979
				1647	1.5600	0.98		1740	15.800	0.2569
				1651	3.3000	1.20		1800	16.990	0.3794
				1653	5.0989	1.37		1830	16.990	0.5698
				1656	4.8000	1.61		1850	16.190	0.6936
				1658	5.4013	1.79		1906	15.410	0.7880
				1700	2.4000	1.87		1930	13.920	0.9195
				1706	0.3000	1.90		1948	12.530	1.0084
				1715	0.5333	1.98		2018	9.434	1.1314
				1722	0.3429	2.02		2044	7.832	1.2152
				1736	0.2571	2.08		2122	6.413	1.3163
				1742	2.0000	2.28		2247	4.787	1.4941
				1747	1.9200	2.44		2400	3.756	1.6105
				1755	0.3750	2.49	5-25	120	2.743	1.7076
				1802	0.2571	2.52		200	2.252	1.7449
				1809	0.4286	2.57		241	1.819	1.7761
	1815	0.2000	2.59		313	1.443	1.7956			
	1818	0.2000	2.60		354	1.046	1.8146			
							423	0.726	1.8242	
							453	0.476	1.8310	
							525	0.288	1.8355	
							612	0.155	1.8394	
							718	0.070	1.8422	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02241.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA			WATERSHED C-3		
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day
EVENT OF MAY 24 - 25, 1973 (CONTINUED)								
							5-25	857
								1200
								2400
								Rate
								(cfs)
								Acc.
								(inches)
								1.8440
								1.8452
								1.8458

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.02241.



CHICKASHA, OKLAHOMA WATERSHED C-4

LOCATION: Grady Connty, Oklahoma; NE 1/4, sec. 35, R. 7 W., T. 7 N., about 2-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 23 sec. N.; Long. 97 deg. 54 min. 13 sec. W.

AREA: 29.93 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-4	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	3.24	0.53	6.41	2.30	6.40	4.66	3.26	1.81	7.04	2.71	1.86	0.12	40.34	
	Q	0.926	0.0	1.195	0.048	2.500	1.764	0.201	0.022	1.093	0.252	0.147	0.0	8.148	
STA AV	P	0.99	1.05	2.18	2.91	3.89	2.43	2.04	2.62	4.06	2.95	1.23	0.83	27.16	
	Q	0.118	0.007	0.169	0.229	0.725	0.444	0.231	0.294	0.378	0.592	0.103	0.014	3.305	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days	
		Date	Rate	Date	Vol.	Date	Vol.	6 Hours	12 Hours	Date	Vol.	Date	Vol.	Date	Vol.
1973		5-24	0.477	5-24	0.462	5-24	0.909	5-24	1.826	5-24	1.873	5-24	1.874	5-22	1.917
															5-24 2.625
MAXIMUMS FOR PERIOD OF RECORD															
		5-31	0.489	5-24	0.462	5-24	0.909	5-24	1.826	5-24	1.873	10-30	2.663	10-30	3.182
		1971		1973		1973		1973		1973		1972		1972	11- 4 3.184

NOTES: Watershed conditions: 100% cultivation, continuous irrigated cotton. Entire watershed disked and mold board plowed late Feb. 1973. Spring preplant tillage consisted of incorporating fertilizer and herbicide, spring-tooth harrowing and spike-tooth harrowing. Entire watershed planted to cotton early June. Tillage during growing season consisted of cultivating with sweep type cultivator as needed. Cotton harvested mid-Dec. 1973. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.33-1 and 69.33-3. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 186 and 187. Precipitation and runoff records began September 1, 1965. STA AV based on 9 yr (1965-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.29	0.0	0.0	0.41	0.0	0.0	0.29	0.0	0.0	0.0			
2	0.52	0.0	0.0	0.35	0.0	1.88	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.66	0.0	0.15	0.02	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0			
4	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	1.08	0.33	0.0	0.0			
5	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.48	0.19	0.0	0.0			
6	0.32	0.0	1.29	0.0	1.02	0.0	0.0	0.0	1.71	0.06	0.02	0.0			
7	0.14	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.01	0.0			
8	0.0	0.0	0.28	0.33	0.0	0.0	0.0	0.0	0.27	0.0	0.01	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.18	0.0	0.0	0.0	0.0			
10	0.0	0.0	1.31	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.86	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.98	0.41	0.0	0.0			
13	0.0	0.0	0.16	0.21	0.0	0.04	1.11	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.54	0.0	0.0	0.02	0.39	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0			
18	0.0	0.03	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.57	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.66			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.05	0.0			
21	0.76	0.0	0.0	0.0	0.01	0.0	0.19	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.08	0.0	0.19	1.30	0.0	0.62	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	1.63	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.92	0.09	2.49	0.0	0.0	0.0	0.0	0.0	1.01	0.0			
25	0.48	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.29	0.27	0.0	0.0			
27	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.35	0.31	0.10	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.30	0.01	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.05	0.0	0.0	0.17	0.0	0.24	0.0	0.0	0.0	0.0			
30	0.0	0.15	0.15	0.0	0.10	0.0	0.49	0.0	0.0	0.0	0.0	0.0			
31	0.15		0.0		1.39		0.0								
TOTAL	3.24	0.53	6.41	2.30	6.40	4.66	3.26	1.81	7.04	2.71	1.86	0.12			
STA AV	0.99	1.05	2.18	2.91	3.89	2.43	2.04	2.62	4.06	2.95	1.23	0.83			

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 186 and 187. STA AV based on 9 yr (1965-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.262	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.001	0.0	1.678	0.0	0.0	0.0	0.0	0.0	0.0
3	0.095	0.0	0.0	0.006	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0 T	0.0	0.0	0.0	0.0	0.261	0.0	0.0	0.002	0.008	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0 T	0.0	0.0	0.0
6	0.0	0.0	0.042	0.0	0.013	0.0	0.0	0.0	0.450	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.066	0.0	0.0	0.0
8	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.052	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.0 T	0.0	0.0	0.0
10	0.0	0.0	0.192	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.171	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.192	0.124	0.0	0.0
13	0.0	0.0	0.001	0.0	0.0	0.0	0.209	0.0	0.237	0.012	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0 T	0.0	0.0	0.0
15	0.0	0.0	0.0	0.013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.343	0.0	0.0	0.0 T	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
17	0.120	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
18	0.0 T	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0 T	0.0	0.0	0.0
19	0.0	0.0	0.0	0.040	0.0	0.0 T	0.0	0.0	0.0	0.0	0.001	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0	0.001	0.0
21	0.389	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0
22	0.0 T	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.288	0.0	0.069	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.875	0.0	2.337	0.0	0.0	0.0	0.0	0.0	0.166	0.0
25	0.011	0.0	0.091	0.0	0.022	0.0	0.0	0.0	0.0	0.0	0.016	0.0
26	0.207	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.178	0.0	0.0 T	0.0
27	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.191	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.683	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0376	0.0	0.0485	0.0020	0.1014	0.0739	0.0082	0.0009	0.0458	0.0102	0.0062	0.0
INCHES	0.926	0.0	1.195	0.048	2.500	1.764	0.201	0.022	1.093	0.252	0.147	0.0
STA AV	0.118	0.007	0.169	0.229	0.725	0.444	0.231	0.294	0.378	0.592	0.103	0.014

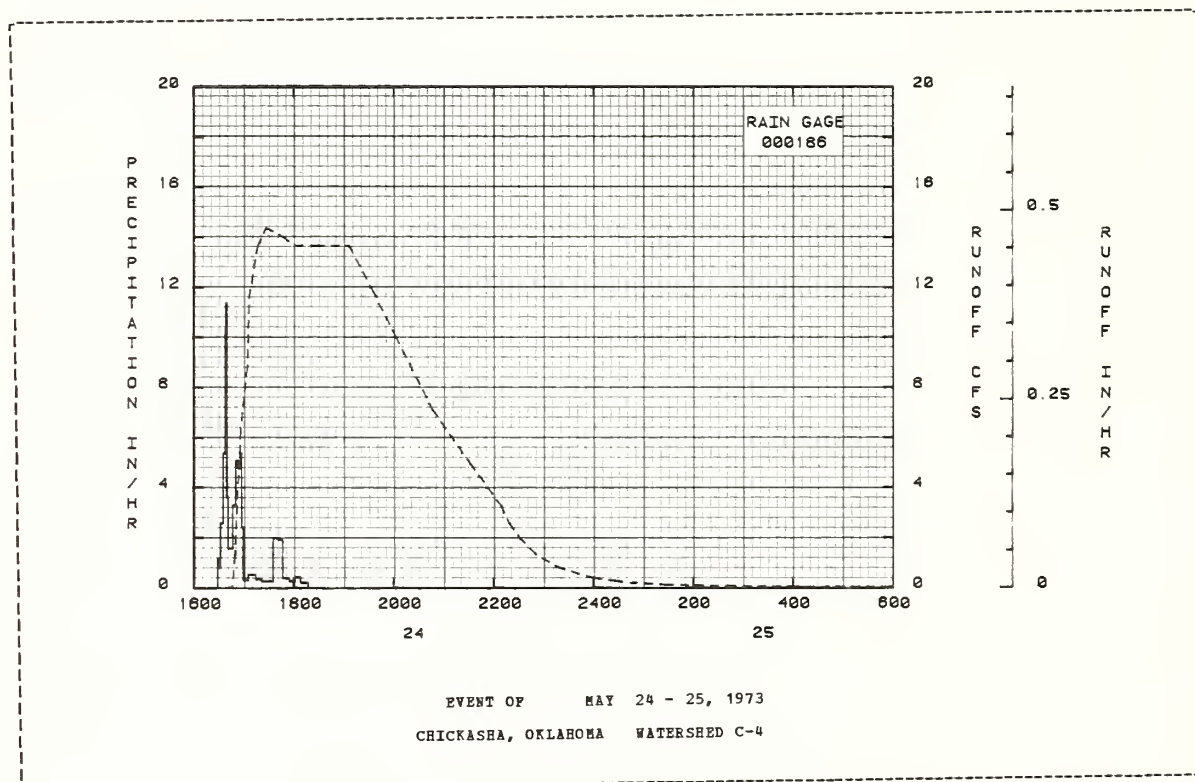
NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.795244. STA AV based on 9 yr (1965-73) record period.

1973 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-4										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973										
5-24	RG 000186 0.0	0.000	5-24	RG 000186			5-24			
				1629	0.0	0.0		1642	0.0	0.0
				1630	1.2000	0.02		1647	0.102	0.0001
				1633	0.8000	0.06		1650	1.492	0.0015
				1636	2.6000	0.19		1657	6.403	0.0167
				1638	5.3988	0.37		1705	8.902	0.0505
WATERSHED CONDITIONS: 100% cultivation continuous irrigated cotton. Plowed 12-14 inches deep in January, harrowed, disked, and harrowed 4 inches deep in April and planted May 18.				1639	10.2025	0.54		1707	11.610	0.0618
				1640	11.4028	0.73		1717	13.660	0.1316
				1642	3.6000	0.85		1727	14.390	0.2091
				1647	1.5600	0.98		1747	14.030	0.3660
				1651	3.3000	1.20		1802	13.660	0.4807
				1653	5.0989	1.37		1837	13.660	0.7447
				1656	4.8000	1.61		1907	13.660	0.9710
				1658	5.4013	1.79		1939	11.610	1.1943
				1700	2.4000	1.87		2007	9.754	1.3595
				1706	0.3000	1.90		2047	7.099	1.5456
				1715	0.5333	1.98		2132	4.949	1.6953
				1722	0.3429	2.02		2209	3.260	1.7792
				1736	0.2571	2.08		2219	2.575	1.7953
				1742	2.0000	2.28		2231	1.987	1.8104
				1747	1.9200	2.44		2251	1.318	1.8287
				1755	0.3750	2.49		2317	0.811	1.8440
				1802	0.2571	2.52		2400	0.368	1.8580
				1809	0.4286	2.57	5-25	35	0.209	1.8636
				1815	0.2000	2.59		127	0.102	1.8680
				1818	0.2000	2.60		242	0.048	1.8711
								407	0.023	1.8728
								617	0.008	1.8739
								734	0.003	1.8742
								737	0.008	1.8742
								802	0.017	1.8743

NOTES: To convert runoff in CPS to IN/RR, multiply by 0.03314.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA				WATERSHED C-4			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973 (CONTINUED)										
							5-25	827	0.012	1.8745
								922	0.005	1.8748
								1200	0.002	1.8751
								1507	0.0	1.8752
								2009	0.0	1.8752
								2114	0.0	1.8752
								2224	0.002	1.8752
								2400	0.001	1.8753

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03314.



LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 00 sec. N.; Long. 97 deg. 54 min. 33 sec. W.

AREA: 12.75 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA				WATERSHED C-5						
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	AnnnaI			
1973	P	3.20	0.55	6.35	2.38	6.40	4.75	3.28	1.78	6.99	2.68	1.80	0.12	40.28			
	Q	0.498	0.0	2.578	0.285	1.668	1.283	0.0	0.002	0.471	0.258	0.282	0.0	7.325			
STA AV	P	0.98	1.03	2.14	2.90	3.76	2.41	1.87	3.24	3.99	2.91	1.20	0.82	27.25			
	Q	0.062	0.0	0.371	0.219	0.288	0.194	0.003	0.045	0.182	0.414	0.048	0.001	1.828			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge Date	Rate	1 Hour Date	Vol.	2 Hours Date	Vol.	Maximum Volume for Selected Time Interval									
								6 Hours Date	Vol.	12 Hours Date	Vol.	1 Day Date	Vol.	2 Days Date	Vol.	8 Days Date	Vol.
1973		5-24	0.389	5-24	0.370	5-24	0.663	5-24	1.027	6- 2	1.076	6- 3	1.139	6- 1	1.227	5-28	1.638
MAXIMUMS FOR PERIOD OF RECORD																	
		10- 2	0.595	10- 2	0.546	10- 2	0.884	10- 2	1.547	10- 2	1.638	10- 2	1.652	10-30	1.837	11- 4	1.838
		1971		1971		1971		1971		1971		1971		1972		1972	

NOTES: Watershed conditions: 100% cultivation, continuous dry land wheat. Harvested June 23, disked 6-8 inches deep June 25 and Aug. 8, used 12 inch sweep 6 inches deep 6-21, chiseled 10 inches deep 8-23, disked 7-8 inches deep September 1973. Watershed was fertilized, spring-tooth and planted mid-October. Maximum volumes and station averages reflect area correction from 12.8 acres as reported in previous volumes to 12.75 acres. For general description of map, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p.69.34-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 9 yr (1965-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)													
CHICKASHA, OKLAHOMA WATERSHED C-5													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.31	0.0	0.0	0.41	0.0	0.0	0.30	0.0	0.0	0.0	0.0
2	0.52	0.0	0.0	0.37	0.0	1.90	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.67	0.0	0.15	0.02	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.12	
4	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	1.08	0.28	0.0	0.0	
5	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.49	0.20	0.0	0.0	
6	0.29	0.0	1.25	0.0	1.10	0.0	0.0	0.0	1.67	0.06	0.02	0.0	
7	0.13	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.01	0.0	
8	0.0	0.0	0.30	0.35	0.0	0.0	0.0	0.0	0.27	0.0	0.01	0.0	
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.14	0.0	0.0	0.0	0.0	
10	0.0	0.0	1.27	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.86	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.40	0.0	0.0	
13	0.0	0.0	0.16	0.21	0.0	0.04	1.16	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.54	0.0	0.0	0.02	0.38	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0	
18	0.0	0.03	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.59	0.0	0.10	0.0	0.0	0.0	0.0	0.61	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.05	0.0	
21	0.73	0.0	0.0	0.0	0.02	0.0	0.19	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.08	0.0	0.20	1.35	0.0	0.57	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	1.59	0.0	0.09	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.94	0.10	2.34	0.0	0.0	0.0	0.0	0.0	0.99	0.0	
25	0.49	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27	0.27	0.0	0.0	
27	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.35	0.30	0.11	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.32	0.02	0.0	0.0	0.0	0.0	0.0	
29	0.0	0.05	0.0	0.0	0.0	0.18	0.0	0.26	0.0	0.0	0.0	0.0	
30	0.0	0.15	0.0	0.0	0.11	0.0	0.51	0.0	0.0	0.0	0.0	0.0	
31	0.16	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
TOTAL	3.20	0.55	6.35	2.38	6.40	4.75	3.28	1.78	6.99	2.68	1.80	0.12	
STA AV	0.98	1.03	2.14	2.90	3.76	2.41	1.87	3.24	3.99	2.91	1.20	0.82	

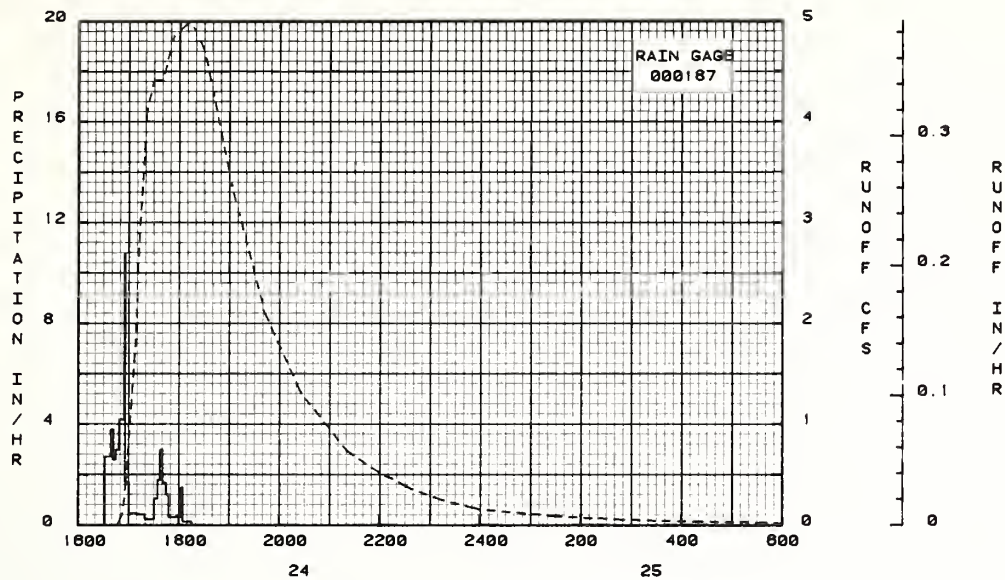
NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV based on 9 yr (1965-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.044	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.004	0.0	0.610	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.030	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0	0.001	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.299	0.0	0.075	0.0	0.0	0.0	0.154	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.019	0.0	0.0	0.0
8	0.0	0.0	0.017	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
10	0.0	0.0	0.413	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.050	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.042	0.076	0.0	0.0
13	0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.027	0.005	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.044	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.025	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.072	0.0	0.0	0.0	0.0	0.0	0.0	0.007	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0
21	0.135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0 T	0.0	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.263	0.0	0.041	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.338	0.0	0.561	0.0	0.0	0.0	0.0	0.0	0.134	0.0
25	0.004	0.0	0.038	0.0	0.018	0.0	0.0	0.0	0.0	0.0	0.006	0.0
26	0.076	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.006	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0 T	0.0	0.192	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0086	0.0	0.0446	0.0051	0.0288	0.0229	0.0	0.0	0.0084	0.0045	0.0050	0.0
INCHES	0.498	0.0	2.578	0.285	1.668	1.283	0.0	0.002	0.471	0.258	0.282	0.0
STA AV	0.062	0.0	0.371	0.219	0.288	0.194	0.003	0.045	0.182	0.414	0.048	0.001

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.866797. STA AV based on 9 yr (1965-73) record period.

1973 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-5										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973										
5-24	RG 000187		5-24	RG 000187			5-24			
	0.0	0.0		1632	0.0	0.0		1647	0.0	0.0
				1639	2.7429	0.32		1653	0.121	0.0005
				1642	3.8000	0.51		1658	0.480	0.0024
				1645	2.6000	0.64		1703	1.174	0.0078
				1649	3.0000	0.84		1709	1.917	0.0198
WATERSHED CONDITIONS: 100% cultivation, continuous dry land wheat.				1652	4.2010	1.05		1713	2.895	0.0323
				1655	4.2000	1.26		1722	4.130	0.0733
				1656	10.7927	1.44		1729	4.410	0.1120
				1701	1.6800	1.58		1740	4.410	0.1749
				1710	0.4667	1.65		1753	4.851	0.2529
				1720	0.4200	1.72		1813	5.003	0.3807
				1731	0.2182	1.76		1830	4.701	0.4876
				1735	1.0500	1.83		1903	3.357	0.6600
				1738	1.8000	1.92		1943	2.094	0.8013
				1741	3.0000	2.07		2026	1.305	0.8960
				1745	1.6500	2.18		2121	0.732	0.9687
				1748	1.2000	2.24		2159	0.517	0.9994
				1756	0.3000	2.28		2239	0.347	1.0218
				1803	0.3429	2.32		2317	0.239	1.0363
				1805	1.5000	2.37		2400	0.155	1.0472
				1816	0.1091	2.39	5-25	137	0.078	1.0619
								253	0.053	1.0683
								417	0.033	1.0730
								542	0.018	1.0758
								747	0.011	1.0782
								1031	0.006	1.0800
								1200	0.004	1.0806
								1450	0.0	1.0810

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07778.



EVENT OF MAY 24 - 25, 1973
CHICKASHA, OKLAHOMA WATERSHED C-5

CHICKASHA, OKLAHOMA WATERSHED C-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 00 sec. N.; Long. 97 deg. 54 min. 34 sec. W.

AREA: 13.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								CHICKASHA, OKLAHOMA WATERSHED C-6											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	3.21	0.55	6.36	2.40	6.42	4.74	3.31	1.79	7.01	2.68	1.80	0.12	40.39					
	Q	0.812	0.0	2.792	0.370	2.014	1.269	0.0	0.002	0.328	0.171	0.254	0.0	8.013					
STA AV	P	0.98	1.03	2.13	2.92	3.76	2.40	1.86	3.25	3.99	2.92	1.20	0.82	27.26					
	Q	0.103	0.009	0.436	0.229	0.353	0.206	0.004	0.097	0.242	0.415	0.060	0.009	2.162					
ANNUAL MAXIMUM DISCHARGE (cu/ft) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		5-24	0.525	5-24	0.487	5-24	0.836	5-24	1.310	5-24	1.365	5-24	1.368	5-22	1.414	5-24	1.841		
MAXIMUMS FOR PERIOD OF RECORD																			
		10-2	0.877	10-2	0.776	10-2	1.123	10-2	1.695	10-2	1.761	10-2	1.763	10-30	1.769	5-24	1.841		
		1971		1971		1971		1971		1971		1971		1972		1973			

NOTES: Watershed conditions: 100% cropland, planted to wheat in fall of 1972 and harvested for grain in June 1973. Watershed was disked and moldboard plowed soon after harvest and remained in rough condition until about mid-Aug. 1973, when watershed was disked, in preparation for seeding to wheat. Watershed was fertilized and freshly spring-tooth and spike-tooth harrowed just prior to seeding wheat in mid-Oct. 1973. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.35-1. Maps - revised composite, p. 69.7-21; topography, p. 69.34-3 of foregoing reference. Monthly precipitation data obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 9 yr (1965-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-6	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.31	0.0	0.0	0.41	0.0	0.0	0.30	0.0	0.0	0.0			
2	0.52	0.0	0.0	0.38	0.0	1.90	0.0	0.0	0.0	0.0	0.0	0.0			
3	0.67	0.0	0.15	0.02	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.12			
4	0.0	0.0	0.0	0.0	0.0	0.40	0.0	0.0	1.08	0.28	0.0	0.0			
5	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.50	0.20	0.0	0.0			
6	0.29	0.0	1.25	0.0	1.11	0.0	0.0	0.0	1.68	0.06	0.02	0.0			
7	0.13	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.0	0.01	0.0			
8	0.0	0.0	0.30	0.35	0.0	0.0	0.0	0.0	0.27	0.0	0.01	0.0			
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.15	0.0	0.0	0.0	0.0			
10	0.0	0.0	1.27	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.86	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.40	0.0	0.0			
13	0.0	0.0	0.16	0.21	0.0	0.04	1.16	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.54	0.0	0.0	0.02	0.38	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0			
18	0.0	0.03	0.0	0.0	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.59	0.0	0.10	0.0	0.0	0.0	0.0	0.61	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.05	0.0			
21	0.73	0.0	0.0	0.0	0.03	0.0	0.19	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.08	0.0	0.21	1.35	0.0	0.58	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	1.59	0.0	0.09	0.0	0.01	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.95	0.10	2.33	0.0	0.0	0.0	0.0	0.0	0.99	0.0			
25	0.49	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27	0.27	0.0	0.0			
27	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.35	0.30	0.11	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.32	0.02	0.0	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.05	0.0	0.0	0.18	0.0	0.26	0.0	0.0	0.0	0.0			
30	0.0	0.15	0.0	0.0	0.12	0.0	0.52	0.0	0.0	0.0	0.0	0.0			
31	0.17	0.0	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL	3.21	0.55	6.36	2.40	6.42	4.74	3.31	1.79	7.01	2.68	1.80	0.12			
STA AV	0.98	1.03	2.13	2.92	3.76	2.40	1.86	3.25	3.99	2.92	1.20	0.82			

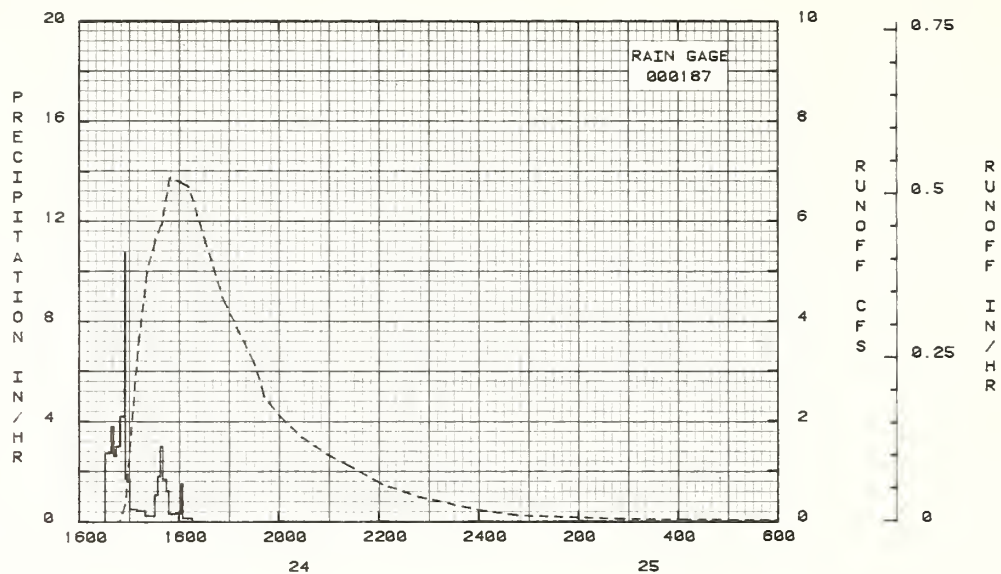
NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV based on 9 yr (1965-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.001	0.0	0.0	0.038	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0 T	0.011	0.0	0.633	0.0	0.0	0.0	0.0	0.0	0.0
3	0.003	0.0	0.0	0.028	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
4	0.001	0.0	0.0	0.0	0.0	0.017	0.0	0.0	0.004	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.385	0.0	0.084	0.0	0.0	0.0	0.054	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0
8	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0
10	0.0	0.0	0.436	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.025	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.105	0.054	0.0	0.0
13	0.0	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.004	0.001	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.061	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.178	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.043	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
18	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.102	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0
21	0.135	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.002	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.306	0.0	0.039	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.332	0.0	0.732	0.0	0.0	0.0	0.0	0.0	0.129	0.0
25	0.010	0.0	0.024	0.0	0.016	0.0	0.0	0.0	0.0	0.0	0.001	0.0
26	0.071	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.014	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0 T		0.225		0.0	0.0		0.0		0.0
MEAN	0.0143	0.0	0.0492	0.0067	0.0355	0.0231	0.0	0.0	0.0060	0.0030	0.0046	0.0
INCHES	0.812	0.0	2.792	0.370	2.014	1.269	0.0	0.002	0.328	0.171	0.254	0.0
STA AV	0.103	0.009	0.436	0.229	0.353	0.206	0.004	0.097	0.242	0.415	0.060	0.009

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.830896. STA AV based on 9 yr (1965-73) record period.

1973 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-6										
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973										
RG 000187										
5-24	0.0	0.0	5-24	1632	0.0	0.0	5-24	1647	0.0	0.0
				1639	2.7429	0.32		1650	0.033	0.0001
				1642	3.8000	0.51		1656	0.347	0.0015
				1645	2.6000	0.64		1702	1.593	0.0089
				1649	3.0000	0.84		1712	3.604	0.0420
WATERSHED CONDITIONS: 100% cultivation, continuous dry land wheat.				1652	4.2010	1.05		1722	5.003	0.0966
				1655	4.2000	1.26		1732	5.644	0.1643
				1656	10.7927	1.44		1740	5.981	0.2235
				1701	1.6800	1.58		1749	6.880	0.2971
				1710	0.4667	1.65		1812	6.694	0.4956
				1720	0.4200	1.72		1831	5.644	0.6446
				1731	0.2182	1.76		1854	4.410	0.7916
				1735	1.0500	1.83		1932	3.121	0.9735
				1738	1.8000	1.92		1943	2.475	1.0126
				1741	3.0000	2.07		2002	2.094	1.0678
				1745	1.6500	2.18		2028	1.671	1.1301
				1748	1.2000	2.24		2100	1.305	1.1906
				1756	0.3000	2.28		2130	1.051	1.2355
				1803	0.3429	2.32		2204	0.732	1.2741
				1805	1.5000	2.37		2248	0.480	1.3080
				1816	0.1091	2.39		2400	0.216	1.3398
							5-25	47	0.112	1.3496
								247	0.039	1.3612
								406	0.022	1.3642
								503	0.014	1.3655
								648	0.008	1.3670
								833	0.004	1.3678
								1130	0.0	1.3682

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.07629.



EVENT OF MAY 24 - 25, 1973
CHICKASHA, OKLAHOMA WATERSHED C-6

CHICKASHA, OKLAHOMA WATERSHED C-7

LOCATION: Grady County, Oklahoma; SW 1/4, Sec. 35, R. 7 W., T. 7 N., about 3 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 02 min. 01 sec. N.; Long. 97 deg. 54 min. 38 sec. W.

AREA: 26.52 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED C-7	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	3.18	0.55	6.38	2.43	6.42	4.79	3.32	1.81	7.00	2.68	1.80	0.12	40.48	
	Q	0.038	0.0	0.805	0.001	1.181	0.777	0.026	0.024	0.118	0.0	0.002	0.0	2.973	
STA AV	P	0.98	1.03	2.12	2.90	3.74	2.41	1.85	3.23	3.98	2.91	1.20	0.82	27.17	
	Q	0.005	0.012	0.109	0.286	0.317	0.267	0.102	0.292	0.301	0.492	0.033	0.005	2.222	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge Date	1 Hour Date Vol.	2 Hours Date Vol.	6 Hours Date Vol.	12 Hours Date Vol.	1 Day Date Vol.	2 Days Date Vol.	8 Days Date Vol.						
1973		5-24	0.358	5-24	0.326	5-24	0.559	5-24	0.938	5-24	0.994	5-24	0.999	5-23	1.136
MAXIMUMS FOR PERIOD OF RECORD															
		4-12 1967	0.957	4-12 1967	0.637	4-12 1967	0.824	10- 2 1971	1.379	10- 2 1971	1.596	10-30 1972	1.891	10-30 1972	2.220
														11- 4 1972	2.220

NOTES: Watershed conditions: 100% cropland. North portion was planted to alfalfa in fall of 1968. South portion of watershed was planted to grain and forage sorghums late May 1973. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.36-1 and 69.36-3. Monthly precipitation data from Thiessen weighted rainfall value from two recording weighing type rain gages, Nos. 185 and 187. Precipitation and runoff records began May 1, 1965. STA AV based on 9 yr (1965-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED C-7	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.32	0.0	0.0	0.42	0.0	0.0	0.30	0.0	0.0	0.0	0.0		
2	0.51	0.0	0.0	0.38	0.0	1.91	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.66	0.0	0.15	0.03	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.12	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	1.08	0.28	0.0	0.0	0.0		
5	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.51	0.20	0.0	0.0	0.0		
6	0.28	0.0	1.25	0.0	1.12	0.0	0.0	0.0	1.68	0.05	0.03	0.0	0.0		
7	0.13	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.01	0.0	0.0		
8	0.0	0.0	0.31	0.36	0.0	0.0	0.0	0.0	0.27	0.0	0.01	0.0	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.16	0.0	0.0	0.0	0.0	0.0		
10	0.0	0.0	1.25	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.87	0.0	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.99	0.40	0.0	0.0	0.0		
13	0.0	0.0	0.15	0.22	0.0	0.05	1.15	0.0	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.53	0.0	0.0	0.03	0.38	0.0	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.42	0.0	0.0	0.0	0.0		
18	0.0	0.03	0.0	0.0	0.0	0.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.59	0.0	0.11	0.0	0.0	0.0	0.0	0.59	0.0	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.29	0.0	0.0	0.0	0.05	0.0	0.0		
21	0.73	0.0	0.0	0.0	0.03	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.08	0.0	0.22	1.36	0.0	0.59	0.0	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	1.58	0.0	0.09	0.0	0.01	0.0	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.97	0.10	2.31	0.0	0.0	0.0	0.0	0.0	0.99	0.0	0.0		
25	0.49	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.27	0.27	0.0	0.0	0.0		
27	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.34	0.30	0.12	0.0	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.33	0.02	0.0	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.05	0.0	0.0	0.18	0.0	0.27	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.16	0.0	0.12	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0		
31	0.17	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	3.18	0.55	6.38	2.43	6.42	4.79	3.32	1.81	7.00	2.68	1.80	0.12			
STA AV	0.98	1.03	2.12	2.90	3.74	2.41	1.85	3.23	3.98	2.91	1.20	0.82			

NOTES: Precipitation values obtained from two recording weighing type rain gages, Nos. 185 and 187. STA AV based 9 yr (1965-73) record period.

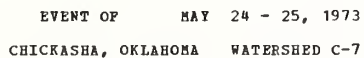
1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.857	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.008	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.138	0.0	0.016	0.0	0.0	0.0	0.079	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.0	0.0	0.0	0.0
10	0.0	0.0	0.321	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.0	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.027	0.0	0.018	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.027	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.377	0.0	1.072	0.0	0.0	0.0	0.0	0.0	0.002	0.0
25	0.0	0.0	0.033	0.0	0.041	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.148	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0014	0.0	0.0289	0.0	0.0424	0.0289	0.0009	0.0009	0.0044	0.0	0.0001	0.0
INCRS	0.038	0.0	0.805	0.001	1.181	0.777	0.026	0.024	0.118	0.0	0.002	0.0
STA AV	0.005	0.012	0.109	0.286	0.317	0.267	0.102	0.292	0.301	0.492	0.033	0.005

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.897498. STA AV based on 9 yr (1965-73) record period.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED C-7							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973										
5-24	RG 000185 0.0	0.0	5-24	EG 000185						
				1634	0.0	0.0	5-24	1655	0.0	0.0
				1655	3.8857	1.36	1700	0.347	0.0005	
				1708	0.2769	1.42	1705	1.305	0.0031	
				1712	1.3500	1.51	1710	2.576	0.0091	
				1728	0.0750	1.53	1716	4.130	0.0217	
WATERSHED CONDITIONS: North portion of field in alfalfa, last harvested May 1. South portion of field in grain sorghum planted May 21.				1732	1.0500	1.60	1720	4.701	0.0327	
				1742	2.9400	2.09	1722	4.851	0.0386	
				1757	0.1200	2.12	1736	4.851	0.0810	
				1803	1.3000	2.25	1740	7.068	0.0958	
				1820	0.0353	2.26	1750	7.856	0.1424	
								1806	9.133	0.2270
								1815	9.585	0.2796
								1834	8.694	0.3878
								1846	7.856	0.4497
								1902	6.880	0.5231
							1917	5.151	0.5794	
							1933	5.159	0.6308	
							1950	4.410	0.6815	
							2028	3.121	0.7707	
							2110	2.094	0.8389	
								2227	1.305	0.9205
								2245	0.830	0.9325
								2400	0.444	0.9622
							5-25	55	0.290	0.9748
								136	0.194	0.9810
								240	0.121	0.9873
								358	0.078	0.9921
								530	0.045	0.9957
								715	0.022	0.9978
								923	0.008	0.9990

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03740.

NOTES: To convert runoff in CPS to IN/HH, multiply by 0.03740.



CHICKASHA, OKLAHOMA WATERSHED C-8

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 35, R. 7 W., T. 7 N., about 3-1/2 miles Southeast of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 01 min. 55 sec. N.; Long. 97 deg. 54 min. 25 sec. W.

AREA: 27.28 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED C-8	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P 3.32	0.58	6.90	2.59	6.49	5.03	3.53	2.04	7.19	2.79	1.94	0.13	42.53	
	Q 0.043	0.0	1.437	0.034	0.822	0.976	0.008	0.010	0.554	0.224	0.088	0.0	4.196	
STA AV	P 1.00	1.06	2.20	2.85	3.83	2.43	1.92	3.27	3.99	3.06	1.24	0.83	27.68	
	Q 0.005	0.0	0.187	0.066	0.111	0.118	0.053	0.146	0.176	0.260	0.013	0.0	1.137	
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS														
	Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				2 Days		8 Days	
	Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973	6-2	0.176	6-2	0.171	6-2	0.328	6-2	0.693	6-2	0.868	6-2	0.933	6-1	0.965
													5-28	1.138
MAXIMUMS FOR PERIOD OF RECORD														
	10-2	0.858	10-2	0.693	10-2	0.998	10-2	1.405	10-2	1.458	10-2	1.458	10-1	1.458
	1971		1971		1971		1971		1971		1971		1971	

NOTES: Watershed conditions: 100% cropland, entire watershed was planted to wheat in mid-Oct. 1972 and harvested for grain in mid-June 1973. Watershed was disk harrowed 8-10 inches deep in July 1973. Area remained in rough condition until mid-Aug. 1973 when watershed was disked and spring-tooth harrowed in preparation for seeding to alfalfa. Watershed was seeded to alfalfa in late Sept. 1973. For general map and description, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, p. 69.37-1. Maps - revised composite, p. 69.7-21; topography, p. 69.37-5 of foregoing reference. Monthly precipitation obtained from Thiessen weighted rainfall values from two recording weighing type rain gages, Nos. 185 and 188. Precipitation and runoff records began April 1, 1965. STA AV based on 9 yr (1965-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)													CHICKASHA, OKLAHOMA WATERSHED C-8	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.33	0.0	0.0	0.45	0.0	0.0	0.34	0.0	0.0	0.0		
2	0.51	0.0	0.0	0.40	0.0	2.00	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.67	0.0	0.13	0.03	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.13		
4	0.0	0.0	0.0	0.0	0.0	0.39	0.0	0.0	1.04	0.30	0.0	0.0		
5	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.0	0.53	0.20	0.0	0.0		
6	0.37	0.0	1.37	0.0	1.09	0.0	0.0	0.0	1.81	0.07	0.03	0.0		
7	0.13	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.02	0.0		
8	0.0	0.0	0.35	0.39	0.0	0.0	0.0	0.0	0.29	0.0	0.01	0.0		
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.26	0.0	0.0	0.0	0.0		
10	0.0	0.0	1.28	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.92	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.96	0.40	0.0	0.0		
13	0.0	0.0	0.17	0.21	0.0	0.05	1.25	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.59	0.0	0.0	0.03	0.38	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.60	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.41	0.0	0.0	0.0		
18	0.0	0.03	0.0	0.0	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.62	0.0	0.09	0.0	0.0	0.0	0.0	0.68	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.05	0.0		
21	0.74	0.0	0.0	0.0	0.04	0.0	0.22	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.09	0.0	0.24	1.44	0.0	0.68	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	1.72	0.0	0.10	0.0	0.01	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	1.14	0.11	2.24	0.0	0.0	0.0	0.0	0.0	1.01	0.0		
25	0.50	0.18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.32	0.27	0.0	0.0		
27	0.0	0.0	0.16	0.0	0.0	0.0	0.0	0.0	0.37	0.32	0.14	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.35	0.03	0.0	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.05	0.0	0.0	0.19	0.0	0.40	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.18	0.0	0.14	0.0	0.56	0.0	0.0	0.0	0.0	0.0		
31	0.19		0.0		1.44		0.0	0.0		0.0		0.0		
TOTAL	3.32	0.58	6.90	2.59	6.49	5.03	3.53	2.04	7.19	2.79	1.94	0.13		
STA AV	1.00	1.06	2.20	2.85	3.83	2.43	1.92	3.27	3.99	3.06	1.24	0.83		

NOTES: Precipitation values obtained from two recording type rain gages, Nos. 185 and 188. STA AV based on 9 yr (1965-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED C-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.033	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.003	0.0	1.067	0.0	0.0	0.0	0.0	0.0	0.0
3	0.001	0.0	0.0	0.001	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.006	0.0	0.0	0.017	0.0 T	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0 T	0.0	0.0	0.0
6	0.0	0.0	0.294	0.0	0.032	0.0	0.0	0.0	0.234	0.001	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
8	0.0	0.0	0.002	0.0 T	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.012	0.0	0.0	0.0	0.0
10	0.0	0.0	0.556	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.001	0.0	0.0	0.001	0.0	0.0	0.0	0.140	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.218	0.109	0.0	0.0
13	0.0	0.0	0.003	0.0	0.0	0.0	0.009	0.0	0.053	0.001	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.009	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
17	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.030	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.022	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.012	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.187	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.558	0.0	0.665	0.0	0.0	0.0	0.0	0.0	0.096	0.0
25	0.0	0.0	0.047	0.0	0.040	0.0	0.0	0.0	0.0	0.0	0.001	0.0
26	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.032	0.0 T	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.077	0.005	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.192	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0016	0.0	0.0531	0.0013	0.0304	0.0373	0.0003	0.0004	0.0212	0.0083	0.0034	0.0
INCHES	0.043	0.0	1.437	0.034	0.822	0.976	0.008	0.010	0.554	0.224	0.088	0.0
STA AV	0.005	0.0	0.187	0.066	0.111	0.118	0.053	0.146	0.176	0.260	0.013	0.0

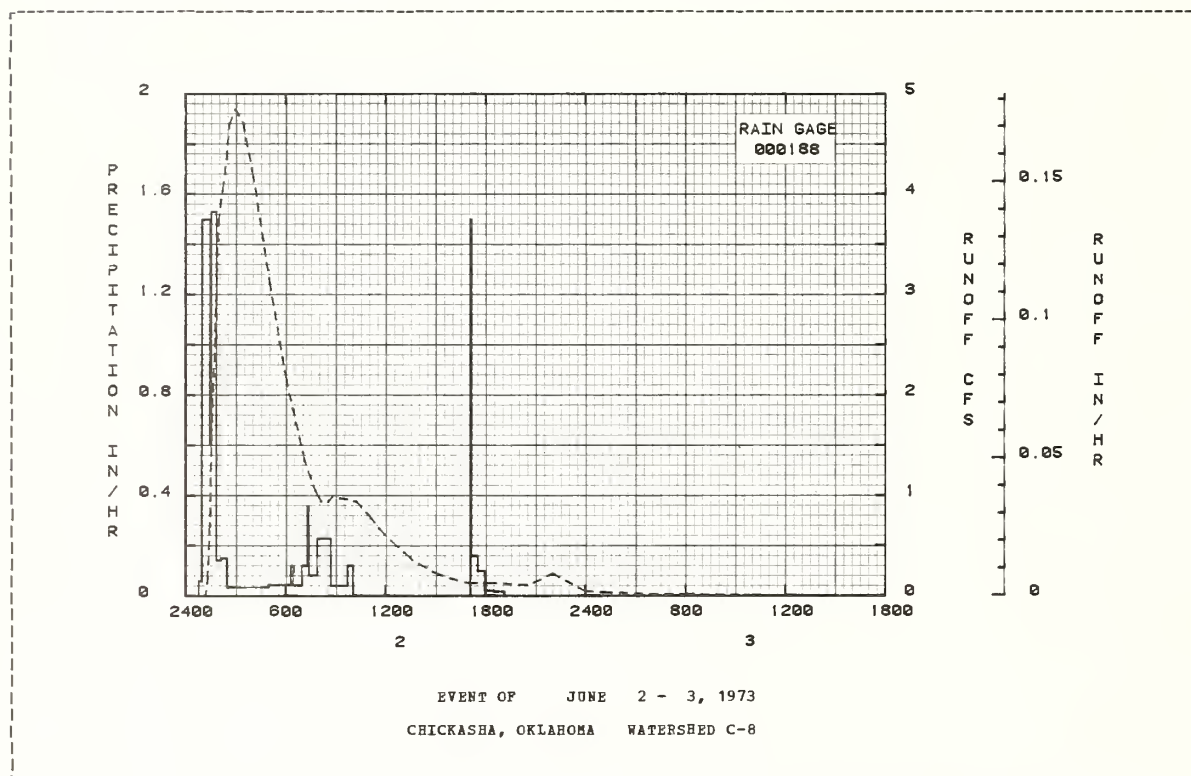
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.972495. STA AV based on 8 yr (1965-73) record period.

1973 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED C-8											
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF JUNE 2 - 3, 1973											
HG 000188			HG 000188								
6- 2	0.0	0.0	6- 2	50	0.0	0.0	6- 2	114	0.0	0.0	
				100	0.0600	0.01		117	0.045	0.0000	
				130	1.5000	0.76		122	0.174	0.0004	
				135	0.6000	0.81		130	0.732	0.0026	
				153	1.5333	1.27		136	1.593	0.0068	
WATERSHED CONDITIONS: 100% cultivation. Wheat harvested on June 22.				210	0.1412	1.31		150	2.786	0.0254	
				230	0.1500	1.36		200	3.731	0.0451	
				500	0.0320	1.44		220	4.130	0.0927	
				620	0.0450	1.50		240	4.701	0.1462	
				630	0.1200	1.52		300	4.851	0.2041	
				700	0.0400	1.54		329	4.701	0.2880	
				710	0.1200	1.56		408	4.130	0.3924	
				720	0.1200	1.58		504	3.121	0.5154	
				725	0.3600	1.61		608	2.094	0.6165	
				755	0.0800	1.65		714	1.305	0.6845	
				845	0.2280	1.84		748	1.051	0.7087	
				946	0.0393	1.88		810	0.937	0.7220	
				1006	0.1200	1.92		836	0.937	0.7367	
				1708	0.0	1.92		850	0.993	0.7449	
				1710	1.5000	1.97		1016	0.937	0.7952	
				1733	0.1565	2.03		1122	0.732	0.8286	
				1758	0.0960	2.07		1200	0.598	0.8439	
				1830	0.0188	2.08		1248	0.480	0.8596	
				1910	0.0150	2.09		1340	0.347	0.8726	
								1502	0.216	0.8866	
								1554	0.174	0.8927	
								1700	0.121	0.8986	
								1840	0.121	0.9060	
								2030	0.100	0.9133	
								2202	0.216	0.9221	

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.03636.

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA				WATERSHED C-8			
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 2 - 3, 1973 (CONTINUED)										
							6- 2	2400	0.039	0.9313
							6- 3	110	0.033	0.9328
								420	0.014	0.9355
								630	0.008	0.9364
								1030	0.0	0.9369

NOTES: To convert runoff in CPS to IN/HR, multiply by 0.03636.



CHICKASAW, OKLAHOMA WATERSHED R-1

LOCATION: Caddo County, Oklahoma; NE 1/4, sec. 21, T. 8 N., R. 9 W., about 4-3/4 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 25 sec. N.; Long. 98 deg. 08 min. 43 sec. W.

AREA: 17.76 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)						CRICKASRA, OKLAHOMA				WATERSRED R-1				
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1973	P	3.28	0.51	6.93	2.34	4.57	4.02	3.93	1.64	8.24	3.01	1.38	0.15	40.00
	Q	0.004	0.0	0.020	0.002	0.017	0.009	0.004	0.0	0.010	0.0	0.001	0.0	0.067
STA AV	P	0.82	0.91	1.87	2.97	3.63	3.75	1.71	2.90	4.19	2.50	1.64	0.90	27.78
	Q	0.000	0.0	0.002	0.014	0.012	0.030	0.000	0.004	0.005	0.001	0.003	0.0	0.072

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-2, R-3 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. The watershed was fertilized and sprig-sodded to bermuda in 20-inch rows in spring of 1972. Because of unfavorable weather conditions, a poor stand resulted. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.38-1 and 69.38-2. Precipitation data obtained from recording rain gage No. 189. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. STA AV based on 12 yr (1962-73) record period. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973	DAILY PRECIPITATION (inches)						CHICKASAW, OKLAHOMA WATERSHED R-1							
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.41	0.0	0.0	0.52	0.0	0.0	0.26	0.0	0.0	0.0	0.0	
2	0.54	0.0	0.0	0.33	0.0	1.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
3	0.61	0.0	0.30	0.13	0.0	0.0	0.0	0.0	0.63	0.37	0.0	0.0	0.15	
4	0.0	0.0	0.0	0.0	0.0	0.03	0.0	0.0	0.84	0.66	0.0	0.0	0.0	
5	0.0	0.0	0.10	0.0	0.0	0.0	0.10	0.0	0.33	0.12	0.0	0.0	0.0	
6	0.35	0.0	0.79	0.0	0.66	0.0	0.0	0.0	1.95	0.02	0.01	0.0	0.0	
7	0.18	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.02	0.0	0.0	
8	0.0	0.0	0.22	0.45	0.0	0.0	0.0	0.0	0.89	0.0	0.01	0.0	0.0	
9	0.0	0.0	0.03	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.0	0.0	
10	0.0	0.0	1.73	0.0	0.0	0.0	0.70	0.0	0.0	0.0	0.0	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.86	0.0	0.0	0.0	
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.16	0.78	0.0	0.0	0.0	
13	0.0	0.0	0.40	0.36	0.0	0.01	0.52	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15	0.0	0.0	0.0	0.59	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.0	0.0	0.26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
17	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.0	
18	0.0	0.02	0.0	0.0	0.0	1.01	0.05	0.0	0.0	0.0	0.0	0.0	0.0	
19	0.0	0.0	0.0	0.20	0.0	0.40	0.0	0.0	0.0	0.0	0.0	0.13	0.0	
20	0.0	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.04	0.0	
21	0.73	0.0	0.0	0.0	0.12	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0	
22	0.0	0.15	0.0	0.06	1.21	0.0	0.68	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	1.89	0.0	0.13	0.0	0.35	0.0	0.0	0.0	0.0	0.0	0.0	
24	0.0	0.0	0.45	0.22	0.0	0.0	0.0	0.0	0.0	0.0	1.10	0.0	0.0	
25	0.52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
26	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.86	0.0	0.0	0.0	0.0	
27	0.0	0.0	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.07	0.0	0.0	
28	0.0	0.0	0.0	0.0	0.0	0.34	0.42	0.66	0.0	0.0	0.0	0.0	0.0	
29	0.0		0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
30	0.0		0.41	0.0	0.82	0.0	0.36	0.0	0.0	0.0	0.0	0.0	0.0	
31	0.18		0.0		1.63		0.0	0.0		0.0			0.0	
TOTAL	3.28	0.51	6.93	2.34	4.57	4.02	3.93	1.64	8.24	3.01	1.38	0.15		
STA AV	0.82	0.91	1.87	2.97	3.63	3.75	1.71	2.90	4.19	2.50	1.64	0.90		

NOTES: Precipitation values obtained from one recording rain gage, No. 189. STA AV based on 12 yr (1962-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED R-1												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
6	0.0	0.0	0.002	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
8	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.007	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	0.0	0.0	0.001	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.004	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.010	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0001	0.0	0.0005	0.0	0.0004	0.0002	0.0001	0.0	0.0002	0.0	0.0	0.0
INCHES	0.004	0.0	0.020	0.002	0.017	0.009	0.004	0.0	0.010	0.0	0.001	0.0
STA AV	0.000	0.0	0.002	0.014	0.012	0.030	0.000	0.004	0.005	0.001	0.003	0.0

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.340183. STA AV based on 12 yr (1962-73) record period.

CHICKASHA, OKLAHOMA WATERSHED R-2

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N., R. 9 W., about 4-1/2 miles North and 2-3/4 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 16 sec. N.; Long. 98 deg. 08 min. 34 sec. W.

AREA: 24.08 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							CHICKASHA, OKLAHOMA WATERSHED R-2							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1973	P	2.99	0.45	6.57	1.96	4.18	3.52	3.58	1.41	7.36	2.63	1.32	0.13	36.10
	Q	0.008	0.001	0.048	0.005	0.039	0.022	0.006	0.0	0.018	0.004	0.002	0.0	0.153
STA AV	P	0.76	0.86	1.70	2.87	3.47	3.62	1.63	2.74	3.96	2.35	1.58	0.85	26.37
	Q	0.002	0.000	0.006	0.040	0.027	0.038	0.001	0.023	0.026	0.007	0.008	0.004	0.182

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds H-1, H-3 and H-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.39-1 and 69.39-2. Precipitation data obtained from recording rain gage No. 190. Precipitation records began Jan. 1, 1962. Runoff records began July 1, 1962. STA AV based on 12 yr (1962-72) record period. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)													
CHICKASHA, OKLAHOMA WATERSHED R-2													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.0	0.33	0.0	0.0	0.39	0.0	0.0	0.24	0.0	0.0	0.0	0.0
2	0.52	0.0	0.0	0.25	0.0	1.20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.63	0.0	0.25	0.12	0.0	0.0	0.0	0.0	0.62	0.31	0.0	0.0	0.13
4	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.0	0.75	0.56	0.0	0.0	0.0
5	0.0	0.0	0.10	0.0	0.0	0.0	0.09	0.0	0.27	0.09	0.0	0.0	0.0
6	0.28	0.0	0.81	0.0	0.68	0.0	0.0	0.0	1.52	0.04	0.02	0.0	0.0
7	0.13	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.56	0.0	0.01	0.0	0.0
8	0.0	0.0	0.19	0.36	0.0	0.0	0.0	0.0	0.89	0.0	0.01	0.0	0.0
9	0.0	0.0	0.02	0.0	0.0	0.0	0.0	0.38	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	1.55	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.76	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.70	0.0	0.0	0.0
13	0.0	0.0	0.37	0.25	0.0	0.0	0.46	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.71	0.0	0.0	0.0	0.0
18	0.0	0.02	0.0	0.0	0.0	0.99	0.05	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.20	0.0	0.31	0.0	0.0	0.0	0.0	0.12	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.0	0.0	0.04	0.0	0.0
21	0.69	0.0	0.0	0.0	0.12	0.0	0.24	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.14	0.0	0.05	1.05	0.0	0.62	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	1.92	0.0	0.10	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.41	0.20	0.0	0.0	0.0	0.0	0.0	0.0	1.06	0.0	0.0
25	0.43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.65	0.0	0.0	0.0	0.0
27	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.17	0.06	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.29	0.45	0.54	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.43	0.0	0.75	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0
31	0.17	0.0	0.0	0.0	1.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL		2.99	0.45	6.57	1.96	4.18	3.52	3.58	1.41	7.36	2.63	1.32	0.13
STA AV		0.76	0.86	1.70	2.87	3.47	3.62	1.63	2.74	3.96	2.35	1.58	0.85

NOTES: Precipitation values obtained from one recording rain gage, No. 190. STA AV based on 12 yr (1962-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED R-2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0
6	0.0	0.0	0.008	0.0	0.008	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0
8	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.023	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.002	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.005	0.0	0.002	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.017	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.026	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0003	0.0	0.0016	0.0002	0.0013	0.0007	0.0002	0.0	0.0006	0.0001	0.0001	0.0
INCHES	0.008	0.001	0.048	0.005	0.039	0.022	0.006	0.0	0.018	0.004	0.002	0.0
STA AV	0.002	0.000	0.006	0.040	0.027	0.038	0.001	0.023	0.026	0.007	0.008	0.004

NOTES: To convert discharge in CPS to IN/DAY, multiply by 0.988441. STA AV based on 12 yr (1962-73) record period.

CHICKASHA, OKLAHOMA WATERSHED R-3

LOCATION: Caddo County, Oklahoma; NE 1/4, sec/ 21. T. 8 N., R. 9 W., about 4-1/2 miles North and 3-1/4 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 09 sec. N.; Long. 98 deg. 08 min. 43 sec. W.

AREA: 25.84 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)													CHICKASHA, OKLAHOMA WATERSHED R-3	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1973	P	2.98	0.48	6.47	2.06	4.05	3.55	3.51	1.07	7.63	2.71	1.36	0.13	36.00
	Q	0.0	0.0	0.013	0.0	0.006	0.004	0.0	0.0	0.004	0.001	0.0	0.0	0.028
STA AV	P	0.75	0.87	1.70	2.85	3.38	3.59	1.59	2.69	3.91	2.35	1.55	0.83	26.06
	Q	0.0	0.0	0.002	0.016	0.009	0.012	0.0	0.010	0.012	0.004	0.004	0.001	0.070

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds R-1, R-2 and R-4. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.40-1 and 69.39-2. Precipitation data obtained from recording rain gage No. 191. Precipitation records began Jan. 1, 1962. STA AV based on 12 yr (1962-73) record period. Runoff measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973	DAILY PRECIPITATION (inches)												CHICKASHA, OKLAHOMA WATERSHED R-3	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.0	0.32	0.0	0.0	0.40	0.0	0.0	0.25	0.0	0.0	0.0		
2	0.53	0.0	0.0	0.27	0.0	1.23	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.61	0.0	0.21	0.12	0.0	0.0	0.0	0.0	0.81	0.33	0.0	0.13		
4	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.75	0.56	0.0	0.0		
5	0.0	0.0	0.10	0.0	0.0	0.0	0.08	0.0	0.26	0.09	0.0	0.0		
6	0.27	0.0	0.79	0.0	0.67	0.0	0.0	0.0	1.52	0.03	0.04	0.0		
7	0.13	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.01	0.0		
8	0.0	0.0	0.19	0.39	0.0	0.0	0.0	0.0	0.90	0.0	0.01	0.0		
9	0.0	0.0	0.04	0.0	0.0	0.0	0.0	0.34	0.0	0.0	0.0	0.0		
10	0.0	0.0	1.52	0.0	0.0	0.0	0.57	0.0	0.0	0.0	0.0	0.0		
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.77	0.0	0.0		
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.73	0.0	0.0		
13	0.0	0.0	0.41	0.28	0.0	0.0	0.50	0.0	0.0	0.0	0.0	0.0		
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
15	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0		
16	0.0	0.0	0.0	0.0	0.0	0.23	0.0	0.0	0.0	0.0	0.0	0.0		
17	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0	0.70	0.0	0.0	0.0		
18	0.0	0.03	0.0	0.0	0.0	0.96	0.06	0.0	0.0	0.0	0.0	0.0		
19	0.0	0.0	0.0	0.20	0.0	0.30	0.0	0.0	0.0	0.0	0.12	0.0		
20	0.0	0.0	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0	0.04	0.0		
21	0.70	0.0	0.0	0.0	0.11	0.0	0.16	0.0	0.0	0.0	0.0	0.0		
22	0.0	0.15	0.0	0.06	1.00	0.0	0.57	0.0	0.0	0.0	0.0	0.0		
23	0.0	0.0	1.90	0.0	0.11	0.0	0.32	0.0	0.0	0.0	0.0	0.0		
24	0.0	0.0	0.40	0.20	0.0	0.0	0.0	0.0	0.0	0.0	1.09	0.0		
25	0.45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
26	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.74	0.0	0.0	0.0		
27	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.05	0.0		
28	0.0	0.0	0.0	0.0	0.0	0.29	0.44	0.24	0.0	0.0	0.0	0.0		
29	0.0	0.0	0.0	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0		
30	0.0	0.0	0.40	0.0	0.68	0.0	0.33	0.0	0.0	0.0	0.0	0.0		
31	0.15	0.0	0.0	1.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
TOTAL	2.98	0.48	6.47	2.06	4.05	3.55	3.51	1.07	7.63	2.71	1.36	0.13		
STA AV	0.75	0.87	1.70	2.85	3.38	3.59	1.59	2.69	3.91	2.35	1.55	0.83		

NOTES: Precipitation values obtained from one recording rain gage, No. 191. STA AV based on 12 yr (1962-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED R-3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
6	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
13	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.006	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0	0.0	0.0005	0.0	0.0002	0.0001	0.0	0.0	0.0001	0.0	0.0	0.0
INCHES	0.0	0.0	0.013	0.0	0.006	0.004	0.0	0.0	0.004	0.001	0.0	0.0
STA AV	0.0	0.0	0.002	0.016	0.009	0.012	0.0	0.010	0.012	0.004	0.004	0.001

NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.921117. STA AV based on 12 yr (1962-73) record period.

CHICKASHA, OKLAHOMA WATERSHED R-4

LOCATION: Caddo County, Oklahoma; NW 1/4, sec. 22, T. 8 N. R. 9 W., about 4-1/2 miles North and 2-1/2 miles West of Verden, Oklahoma; Washita River Basin. Lat. 35 deg. 09 min. 09 sec. N.; Long. 98 deg. 08 min. 21 sec. W.

AREA: 18.12 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED H-4	
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	2.97	0.53	6.37	2.31	4.70	3.89	3.87	1.16	7.46	2.95	1.43	0.11	37.75	
	Q	0.001	0.0	0.006	0.0	0.006	0.007	0.0	0.0	0.004	0.001	0.0	0.0	0.025	
STA AV	P	0.79	0.86	1.68	2.98	3.70	3.80	1.64	2.80	4.11	2.46	1.60	0.88	27.29	
	Q	0.000	0.0	0.001	0.050	0.013	0.025	0.0	0.016	0.014	0.004	0.004	0.0	0.126	

NOTES: Watershed conditions: Watershed is in range and pasture grasses and within the same fence enclosure as Watersheds H-1, H-2 and H-3. All have essentially the same grazing management. There is a good hydrologic cover of weeds, annual grasses, low order perennial grasses, and some climax grass species, however, the range condition class is poor. For description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1965, USDA Misc. Pub. 1216, pp. 69.41-1 and 69.41-2. Precipitation data obtained from recording rain gage No. 192. Precipitation records began Jan. 1, 1962. STA AV based on 12 yr (1962-73) record period. Run-off measured by stage-volume change in a farm pond. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED H-4	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	0.0	0.0	0.35	0.0	0.0	0.39	0.0	0.0	0.24	0.0	0.0	0.0	0.0		
2	0.45	0.0	0.0	0.30	0.0	1.33	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
3	0.59	0.0	0.18	0.15	0.0	0.0	0.0	0.0	0.57	0.35	0.0	0.11			
4	0.0	0.0	0.0	0.0	0.0	0.02	0.0	0.0	0.83	0.69	0.0	0.0			
5	0.0	0.0	0.10	0.0	0.0	0.0	0.10	0.0	0.27	0.11	0.0	0.0			
6	0.22	0.0	0.84	0.0	0.80	0.0	0.0	0.0	1.43	0.02	0.02	0.0			
7	0.09	0.24	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.01	0.0			
8	0.0	0.0	0.19	0.50	0.0	0.0	0.0	0.0	0.88	0.0	0.01	0.0			
9	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0			
10	0.0	0.0	1.63	0.0	0.0	0.0	0.64	0.0	0.0	0.0	0.0	0.0			
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.0	0.0			
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.68	0.0	0.0			
13	0.0	0.0	0.29	0.28	0.0	0.0	0.45	0.0	0.0	0.0	0.0	0.0			
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
15	0.0	0.0	0.0	0.56	0.0	0.0	0.0	0.50	0.0	0.0	0.0	0.0			
16	0.0	0.0	0.0	0.0	0.0	0.25	0.0	0.0	0.0	0.0	0.0	0.0			
17	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0			
18	0.0	0.02	0.0	0.0	0.0	0.96	0.06	0.0	0.0	0.0	0.0	0.0			
19	0.0	0.0	0.0	0.20	0.0	0.40	0.0	0.0	0.0	0.0	0.14	0.0			
20	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.0	0.0	0.0	0.03	0.0			
21	0.78	0.0	0.0	0.0	0.15	0.0	0.26	0.0	0.0	0.0	0.0	0.0			
22	0.0	0.17	0.0	0.05	1.20	0.0	0.73	0.0	0.0	0.0	0.0	0.0			
23	0.0	0.0	1.74	0.0	0.12	0.0	0.29	0.0	0.0	0.0	0.0	0.0			
24	0.0	0.0	0.50	0.27	0.0	0.0	0.0	0.0	0.0	0.0	1.13	0.0			
25	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
26	0.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.80	0.0	0.0	0.0			
27	0.0	0.0	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.20	0.09	0.0			
28	0.0	0.0	0.0	0.0	0.0	0.40	0.40	0.35	0.0	0.0	0.0	0.0			
29	0.0	0.0	0.0	0.0	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0			
30	0.0	0.32	0.0	0.0	0.80	0.0	0.39	0.0	0.0	0.0	0.0	0.0			
31	0.19	0.0	0.0	1.63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0			
TOTAL		2.97	0.53	6.37	2.31	4.70	3.89	3.87	1.16	7.46	2.95	1.43	0.11		
STA AV		0.79	0.86	1.68	2.98	3.70	3.80	1.64	2.80	4.11	2.46	1.60	0.88		

NOTES: Precipitation obtained from one recording rain gage, No. 192. STA AV based on 12 yr (1962-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED R-4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
6	0.0	0.0	0.001	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0		0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0		0.0		0.0		0.0	0.0		0.0		0.0
MEAN	0.0	0.0	0.0001	0.0	0.0001	0.0002	0.0	0.0	0.0001	0.0	0.0	0.0
INCHES	0.001	0.0	0.006	0.0	0.006	0.007	0.0	0.0	0.004	0.001	0.0	0.0
STA AV	0.000	0.0	0.001	0.050	0.013	0.025	0.0	0.016	0.014	0.004	0.004	0.0

NOTES: To convert discharge in CFS to IN/DAY, multiply by 1.313557. STA AV based on 12 yr (1962-73) record period.

CRICKASRA, OKLAHOMA WATERSHED R-5

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., R. 6 W., about 8 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 05 min. 21 sec. N.; Long. 97 deg. 47 min. 25 sec. W.

AREA: 23.72 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								CHICKASHA, OKLAHOMA WATERSHED R-5									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	3.15	0.50	6.47	2.54	7.93	5.89	3.71	2.11	6.46	3.32	3.54	0.11	45.73			
	Q	0.323	0.0	1.888	0.096	2.006	1.590	0.0	0.009	0.028	0.038	0.810	0.0	6.788			
STA AV	P	1.07	1.04	2.30	2.94	4.59	3.06	2.62	2.57	4.52	3.59	1.69	1.05	31.02			
	Q	0.046	0.021	0.302	0.178	0.395	0.337	0.041	0.001	0.067	0.270	0.133	0.032	1.825			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for 6 Hours		for Selected Time 12 Hours		Interval 1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		5-24	2.637	5-24	1.576	5-24	1.760	5-24	1.799	5-24	1.800	5-24	1.800	5-22	1.806	5-24	2.035
MAXIMUMS FOR PERIOD OF RECORD																	
		5-24	2.637	5-24	1.576	5-24	1.760	5-24	1.799	5-24	1.800	5-24	1.800	5-22	1.806	5-24	2.035
		1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years. Range condition class during 1971 was good, however, entire area was slightly overgrazed during the spring and summer. The vegetative cover in mid-Nov. 1973, based on 25 clipped samples uniformly spaced, averaged 2280 pounds of standing grass, 698 pounds of weeds, and 1214 pounds of mulch per acre. Prior to Oct. 1970 this watershed was within the same pasture area as Watershed R-6, however, was subjected to a slightly heavier grazing rate. For general description of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, p. 69.42-1; maps - topography, 1966, p. 69.42-3 of foregoing reference; revised composite, 1965, USDA Misc. Pub. 1216, p. 69.7-21. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 195 and 196. Precipitation and runoff records began July 1, 1966. STA AV based on 8 yr (1966-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)														CRICKASRA, OKLAHOMA WATERSHED R-5													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.09	0.0	0.0	0.57	0.0	0.0	0.37	0.0	0.0	0.0	0.0														
2	0.37	0.0	0.0	0.37	0.0	1.68	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
3	0.77	0.0	0.18	0.03	0.0	0.0	0.0	0.0	0.05	0.39	0.0	0.11															
4	0.0	0.0	0.0	0.0	0.0	1.28	0.0	0.0	0.08	0.35	0.0	0.0															
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.21	0.0	0.0															
6	0.25	0.0	1.14	0.0	0.67	0.0	0.0	0.0	1.35	0.08	0.02	0.0															
7	0.11	0.20	0.0	0.0	0.0	0.0	0.0	0.0	0.08	0.0	0.01	0.0															
8	0.0	0.0	0.22	0.30	0.0	0.0	0.0	0.0	0.17	0.0	0.01	0.0															
9	0.0	0.0	0.03	0.0	0.0	0.0	0.0	1.28	0.0	0.0	0.0	0.0															
10	0.0	0.0	0.97	0.0	0.0	0.0	0.35	0.0	0.0	0.0	0.0	0.0															
11	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.92	0.0	0.0															
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.87	0.44	0.0	0.0															
13	0.0	0.0	0.15	0.17	0.0	0.14	0.64	0.0	0.0	0.0	0.0	0.0															
14	0.0	0.0	0.0	0.02	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.0															
15	0.0	0.0	0.0	0.84	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.0															
16	0.0	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0	0.0	0.0	0.0															
17	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0															
18	0.0	0.01	0.0	0.0	0.0	0.67	0.0	0.0	0.0	0.0	0.0	0.0															
19	0.0	0.0	0.0	0.58	0.0	0.56	0.0	0.0	0.0	0.0	2.14	0.0															
20	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0	0.06	0.0															
21	0.72	0.0	0.0	0.0	0.05	0.0	0.14	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.14	0.0	0.22	1.30	0.0	1.42	0.0	0.20	0.0	0.0	0.0															
23	0.0	0.0	1.98	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
24	0.0	0.0	1.36	0.01	3.73	0.0	0.0	0.0	0.0	0.0	1.20	0.0															
25	0.46	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
26	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.70	0.52	0.0	0.0															
27	0.05	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.47	0.41	0.10	0.0															
28	0.0	0.0	0.0	0.0	0.0	0.22	0.05	0.0	0.0	0.0	0.0	0.0															
29	0.0	0.06	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.0	0.16	0.0	0.0	0.80	0.0	0.58	0.0	0.0	0.0	0.0	0.0															
31	0.19		0.0		1.25		0.0	0.0		0.0		0.0															
TOTAL	3.15	0.50	6.47	2.54	7.93	5.89	3.71	2.11	6.46	3.32	3.54	0.11															
STA AV	1.07	1.04	2.30	2.94	4.59	3.06	2.62	2.57	4.52	3.59	1.69	1.05															

NOTES: Precipitation obtained from Thiessen weighted values from two gages, Nos. 195 and 196. STA AV based on 8 yr (1966-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASAW, OKLAHOMA WATERSHED R-5												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.876	0.0	0.0	0.0	0.0	0.0	0.0
3	0.056	0.0	0.0	0.0	0.0	0.004	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0 T	0.0	0.0	0.0	0.0	0.634	0.0	0.0	0.0	0.0 T	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.020	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.121	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0
10	0.0	0.0	0.306	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.004	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.001	0.0 T	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.0	0.0	0.0	0.035	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.107	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.009	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.060	0.0	0.014	0.0	0.0	0.0	0.0	0.588	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.006	0.0
21	0.086	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0 T	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.379	0.0	0.005	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.988	0.0	1.794	0.0	0.0	0.0	0.0	0.0	0.212	0.0
25	0.0	0.0	0.086	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.001	0.0
26	0.064	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.022	0.0	0.0	0.0
27	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.019	0.0	0.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	0.0	0.199	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0104	0.0	0.0607	0.0032	0.0645	0.0528	0.0	0.0003	0.0009	0.0012	0.0269	0.0
INCREAS	0.323	0.0	1.888	0.096	2.006	1.590	0.0	0.009	0.028	0.038	0.810	0.0
STA AV	0.046	0.021	0.302	0.178	0.395	0.337	0.041	0.001	0.067	0.270	0.133	0.032

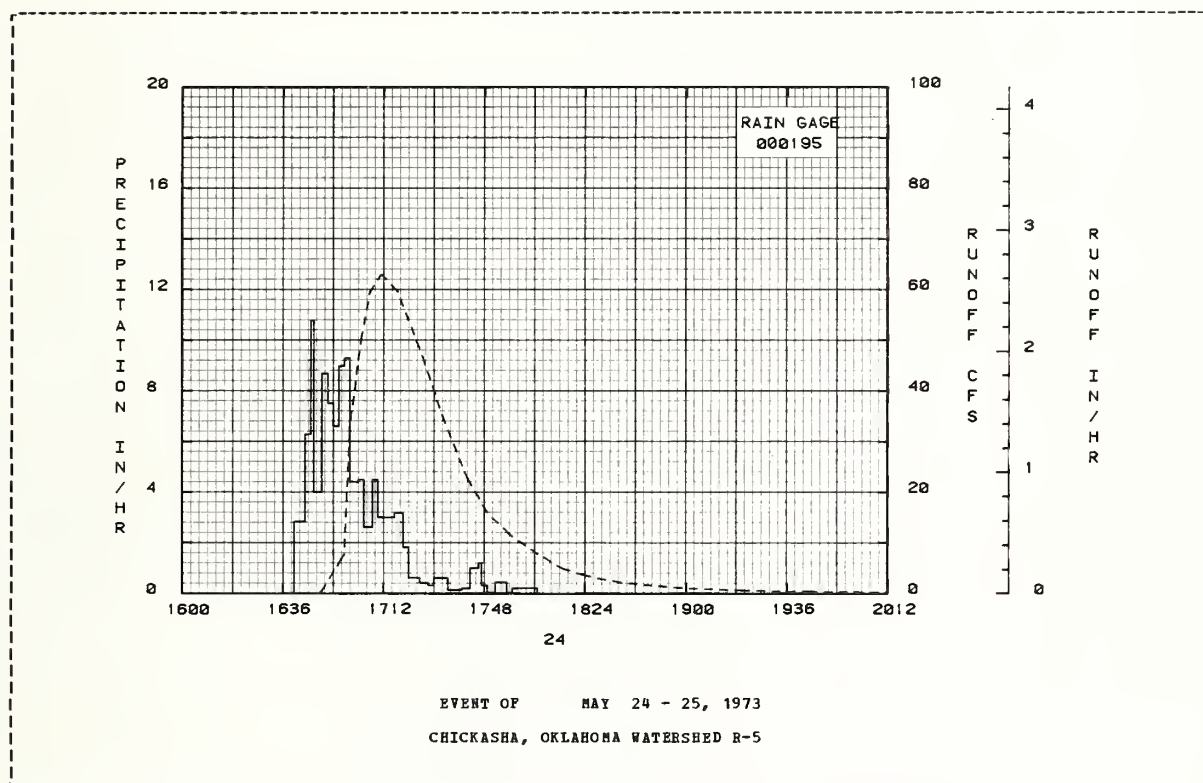
NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.003442. STA AV based on 8 yr (1966-73) record period.

1973 SELECTED RUNOFF EVENT CHICKASAW, OKLAHOMA WATERSHED R-5												
ANTECEDENT CONDITIONS			RAINFALL									
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Runoff	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)		(inches)	
EVENT OF MAY 24 - 25, 1973												
RG 000195			RG 000195									
5-24	0.0	0.0	5-24	1640	0.0	0.0	5-24	1643	0.0	0.0		
				1644	2.8500	0.19		1647	0.020	0.0000		
				1646	6.2987	0.40		1650	0.442	0.0005		
				1647	10.8026	0.58		1658	7.775	0.0234		
				1650	4.0000	0.78		1700	32.970	0.0519		
WATERSHED CONDITIONS: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years.				1652	8.7021	1.07		1704	50.230	0.1678		
				1654	7.4984	1.32		1707	59.510	0.2821		
				1656	6.5986	1.54		1711	63.070	0.4529		
				1658	9.0022	1.84		1717	59.510	0.7094		
				1700	9.2980	2.15		1726	46.540	1.0417		
				1703	4.4011	2.37		1733	34.950	1.2405		
				1705	4.5000	2.52		1742	22.530	1.4209		
				1708	2.6000	2.65		1749	15.920	1.5147		
				1710	4.5011	2.80		1758	11.150	1.5995		
				1716	3.0000	3.10		1807	7.775	1.6589		
				1719	3.2000	3.26		1816	4.805	1.6983		
				1721	1.8000	3.32		1826	3.210	1.7262		
				1725	0.6000	3.36		1837	2.077	1.7465		
				1728	0.4000	3.38		1856	1.105	1.7676		
				1730	0.3000	3.39		1920	0.554	1.7814		
				1733	0.6000	3.42		1944	0.289	1.7885		
				1735	0.6000	3.44		2023	0.121	1.7941		
				1740	0.1200	3.45		2105	0.057	1.7967		
				1743	0.2000	3.46		2222	0.020	1.7987		
				1746	1.0000	3.51		2400	0.008	1.7997		
				1747	1.2000	3.53	5-25	230	0.002	1.8002		
				1749	0.3000	3.54		1200	0.0	1.8006		
				1752	0.0	3.54						
				1756	0.4500	3.57						
				1758	0.0	3.57						

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.041810.

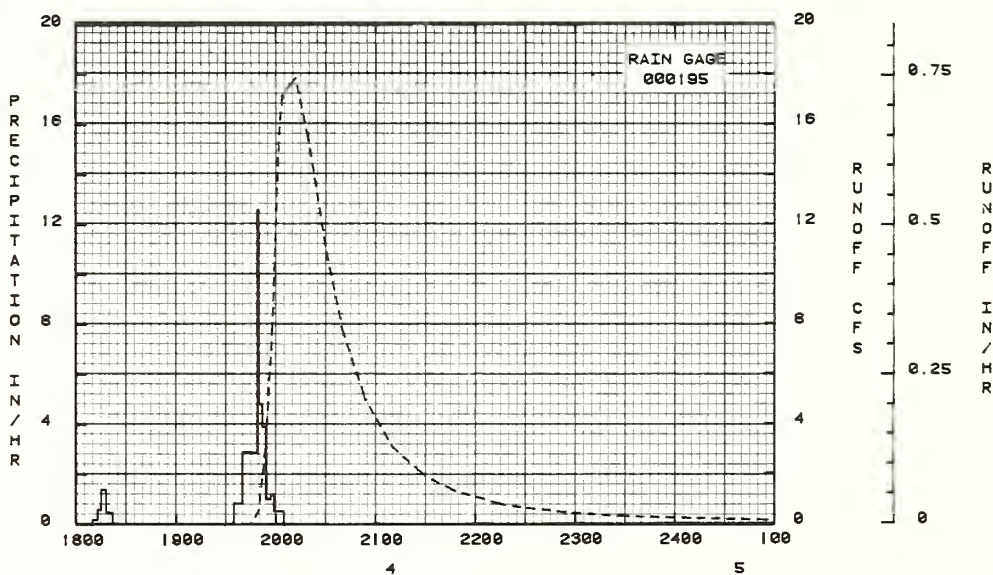
1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED R-5						
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)
EVENT OF MAY 24 - 25, 1973 (CONTINUED)									
			5-24	1807	0.2000	3.60			

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.041810.



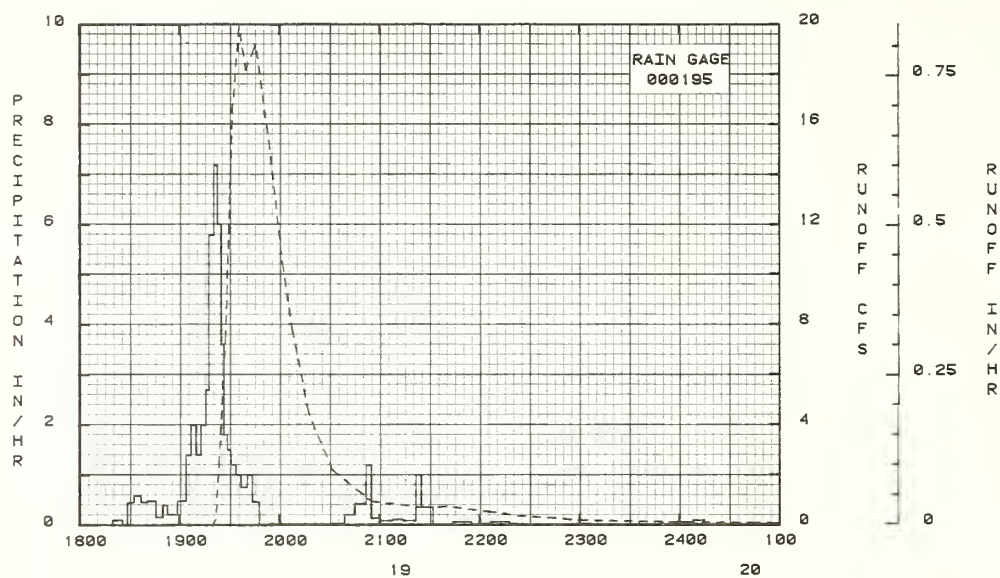
1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED R-5							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 4 - 5, 1973										
6- 4	RG 000195 0.0	0.0	6- 4	RG 000195			6- 4	1940	0.0	0.0
				1810	0.0	0.0		1946	0.032	0.0001
				1813	0.2000	0.01		1950	0.595	0.0009
				1815	0.6000	0.03		1954	3.094	0.0061
				1818	1.4000	0.10		1958	7.775	0.0212
				1822	0.4500	0.13				
WATERSHED CONDITIONS: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years.				1935	0.0164	0.15		2002	15.310	0.0534
				1940	0.8400	0.22		2004	17.200	0.0761
				1945	2.8800	0.46		2012	17.860	0.1738
				1949	2.8500	0.65		2020	15.310	0.2662
				1950	12.6031	0.86		2030	11.150	0.3585
				1952	4.8012	1.02		2040	7.775	0.4244
				1954	3.9000	1.15		2054	4.956	0.4865
				1957	1.0000	1.20		2110	3.094	0.5313
				1959	1.2000	1.24		2130	1.903	0.5662
				2005	0.5000	1.29		2148	1.297	0.5862
								2218	0.728	0.6074
								2254	0.442	0.6221
								2328	0.289	0.6308
								2400	0.216	0.6364
							6- 5	56	0.121	0.6430
								214	0.068	0.6481
								414	0.032	0.6523
								844	0.005	0.6558
								1200	0.002	0.6562
								1540	0.0	0.6564
								2200	0.0	0.6564

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.041810.



EVENT OF JUNE 4 - 5, 1973
CHICKASHA, OKLAHOMA WATERSHED R-5

1973			SELECTED RUNOFF EVENT				CHICKASHA, OKLAHOMA WATERSHED R-5				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF					
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.	
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)	
EVENT OF NOVEMBER 19 - 20, 1973											
11-19	RG 000195 0.0	0.0	11-19	RG 000195 1820	0.0	0.0	11-19	1920	0.0	0.0	
				1826	0.1000	0.01		1922	0.216	0.0001	
				1829	0.0	0.01		1924	2.454	0.0021	
				1833	0.4500	0.04		1928	7.775	0.0163	
				1837	0.6000	0.08		1932	16.550	0.0501	
WATERSHED CONDITIONS: 100% rangeland, native grass rangeland, continuously grazed by beef cattle during recent years.				1841	0.4500	0.11		1936	19.930	0.1007	
				1846	0.4800	0.15		1940	18.190	0.1536	
				1850	0.1500	0.16		1946	19.230	0.2331	
				1853	0.4000	0.18		1954	15.310	0.3290	
				1859	0.2000	0.20		2002	10.420	0.4004	
				1904	0.4800	0.24		2008	7.775	0.4390	
				1907	1.4000	0.31		2018	4.369	0.4807	
				1910	2.0000	0.41		2032	2.168	0.5127	
				1913	1.4000	0.48		2055	0.931	0.5375	
				1916	2.0000	0.58		2126	0.682	0.5549	
				1918	2.7000	0.67		2140	0.728	0.5618	
				1921	5.8000	0.96		2205	0.515	0.5727	
				1923	7.1985	1.20		2223	0.346	0.5781	
				1925	6.0015	1.40		2300	0.174	0.5848	
				1927	3.6000	1.52		2400	0.079	0.5901	
				1929	1.8000	1.58	11-20	48	0.048	0.5922	
				1931	1.5000	1.63		202	0.020	0.5940	
				1934	1.2000	1.69		445	0.005	0.5954	
				1937	1.0000	1.74		735	0.002	0.5958	
				1941	0.7500	1.79		1200	0.0	0.5960	
				1944	1.0000	1.84		1600	0.0	0.5960	
				1948	0.4500	1.87		1910	0.0	0.5960	
				1954	0.0	1.87					
				2039	0.0267	1.89					
				2045	0.2000	1.91					
				2052	0.4286	1.96					
				2055	1.2000	2.02					
				2100	0.1200	2.03					
				2108	0.0750	2.04					
				2114	0.1000	2.05					
				2122	0.0750	2.06					
				2125	1.0000	2.11					
				2132	0.3429	2.15					
				2144	0.0	2.15					
				2155	0.0545	2.16					
				2207	0.0	2.16					
				2218	0.0545	2.17					
				2355	0.0	2.17					
			11-20	8	0.0462	2.18					
				15	0.0857	2.19					



EVENT OF NOVEMBER 19 - 20, 1973
CHICKASHA, OKLAHOMA WATERSHED R-5

CHICKASHA, OKLAHOMA WATERSHED R-6

LOCATION: Grady County, Oklahoma; SW 1/4, sec. 12, T. 7 N., R. 6 W., about 8-1/2 miles east and 3 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 05 min. 18 sec. N.; Long. 97 deg. 47 min. 20 sec. W.

AREA: 27.22 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								CHICKASHA, OKLAHOMA WATERSHED R-6									
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	3.25	0.51	6.32	2.49	7.88	5.79	3.69	2.04	6.56	3.30	3.56	0.10	45.49			
	Q	0.120	0.0	1.649	0.154	2.415	1.589	0.051	0.052	0.063	0.048	0.804	0.0	6.945			
STA AV	P	1.08	1.06	2.27	2.89	4.63	3.03	2.61	2.56	4.55	3.52	1.70	1.04	30.93			
	Q	0.017	0.013	0.258	0.205	0.481	0.296	0.038	0.014	0.085	0.256	0.117	0.017	1.798			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF HUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval						2 Days		8 Days	
		Date	Date	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		5-24	3.829	5-24	1.914	5-24	2.048	5-24	2.060	5-24	2.060	5-23	2.060	5-22	2.116	5-24	2.384
MAXIMUMS FOR PERIOD OF RECORD																	
		5-24	3.829	5-24	1.914	5-24	2.048	5-24	2.060	5-24	2.060	5-23	2.060	5-22	2.116	5-24	2.384
		1973		1973		1973		1973		1973		1973		1973		1973	

NOTES: Watershed conditions: 100% rangeland, native grass continuously grazed by beef cattle during recent years. Range condition class during the year was good to excellent, however, entire area was slightly overgrazed throughout the year. The vegetative cover in late-Nov. 1973, based on 25 uniformly spaced clipped samples, averaged 2,500 pounds of standing grass, 815 pounds of weeds, and 1465 pounds of mulch. This watershed was in the same pasture area as Watershed R-5, however, was subjected to a slightly lighter grazing rate. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.43-1 and 69.43-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 196 and 197. Precipitation and runoff records began July 1, 1966. STA AV based on 8 yr (1966-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1973 DAILY PRECIPITATION (inches)														CHICKASHA, OKLAHOMA WATERSHED R-6													
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec															
1	0.0	0.0	0.07	0.0	0.0	0.57	0.0	0.0	0.36	0.0	0.0	0.0															
2	0.41	0.0	0.0	0.35	0.0	1.64	0.0	0.0	0.0	0.0	0.0	0.0															
3	0.74	0.0	0.18	0.05	0.0	0.0	0.0	0.0	0.04	0.37	0.0	0.10															
4	0.0	0.0	0.0	0.0	0.0	1.24	0.0	0.0	0.09	0.38	0.0	0.0															
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.19	0.0	0.0															
6	0.31	0.0	1.07	0.0	0.63	0.0	0.0	0.0	1.42	0.07	0.03	0.0															
7	0.13	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.01	0.0															
8	0.0	0.0	0.20	0.29	0.0	0.0	0.0	0.0	0.19	0.0	0.01	0.0															
9	0.0	0.0	0.04	0.0	0.0	0.0	0.0	1.23	0.0	0.0	0.0	0.0															
10	0.0	0.0	0.88	0.0	0.0	0.0	0.30	0.0	0.0	0.0	0.0	0.0															
11	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.87	0.0	0.0															
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.87	0.46	0.0	0.0															
13	0.0	0.0	0.14	0.20	0.0	0.15	0.59	0.0	0.0	0.0	0.0	0.0															
14	0.0	0.0	0.0	0.03	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0															
15	0.0	0.0	0.0	0.76	0.0	0.0	0.0	0.81	0.0	0.0	0.0	0.0															
16	0.0	0.0	0.0	0.0	0.0	0.52	0.0	0.0	0.0	0.0	0.0	0.0															
17	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0															
18	0.0	0.01	0.0	0.0	0.0	0.65	0.0	0.0	0.0	0.0	0.0	0.0															
19	0.0	0.0	0.0	0.56	0.0	0.55	0.0	0.0	0.0	0.0	2.11	0.0															
20	0.0	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.07	0.0															
21	0.72	0.0	0.0	0.0	0.04	0.0	0.16	0.0	0.0	0.0	0.0	0.0															
22	0.0	0.13	0.0	0.24	1.27	0.0	1.46	0.0	0.26	0.0	0.0	0.0															
23	0.0	0.0	2.02	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
24	0.0	0.0	1.37	0.01	3.75	0.0	0.0	0.0	0.0	0.0	1.24	0.0															
25	0.47	0.10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
26	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.69	0.50	0.0	0.0															
27	0.05	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.47	0.46	0.09	0.0															
28	0.0	0.0	0.0	0.0	0.0	0.19	0.05	0.0	0.0	0.0	0.0	0.0															
29	0.0	0.08	0.0	0.0	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0															
30	0.0	0.14	0.0	0.78	0.0	0.0	0.62	0.0	0.0	0.0	0.0	0.0															
31	0.20	0.0	0.0	1.28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0															
TOTAL	3.25	0.51	6.32	2.49	7.88	5.79	3.69	2.04	6.56	3.30	3.56	0.10															
STA AV	1.08	1.06	2.27	2.89	4.63	3.03	2.61	2.56	4.55	3.52	1.70	1.04															

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 196 and 197. STA AV based on 8 yr (1966-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED R-6												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0	0.0	0.062	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.002	0.0	0.959	0.0	0.0	0.0	0.0	0.0	0.0
3	0.033	0.0	0.0	0.008	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.690	0.0	0.0	0.0	0.001	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.099	0.0	0.031	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.057	0.0	0.0	0.0	0.0
10	0.0	0.0	0.181	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.014	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.026	0.004	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.009	0.0	0.002	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0
15	0.0 T	0.0	0.0	0.075	0.0	0.0	0.0	0.003	0.0	0.0	0.0	0.0
16	0.010	0.0	0.0	0.002	0.0	0.008	0.0	0.0 T	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.036	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.085	0.0	0.051	0.0	0.0	0.0	0.0	0.722	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.002	0.0
21	0.067	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.001	0.047	0.0	0.042	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.395	0.0 T	0.016	0.0	0.007	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	1.116	0.0	2.356	0.0	0.0	0.0	0.0	0.0	0.196	0.0
25	0.0	0.0	0.090	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
26	0.026	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0
27	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.007	0.0 T	0.0	0.0
28	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.035	0.0	0.0
29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.003	0.0	0.014	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0 T	0.0	0.297	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0044	0.0	0.0608	0.0059	0.0891	0.0606	0.0019	0.0019	0.0024	0.0018	0.0307	0.0
INCHES	0.120	0.0	1.649	0.154	2.415	1.589	0.051	0.052	0.063	0.048	0.804	0.0
STA AV	0.017	0.013	0.258	0.205	0.481	0.296	0.038	0.014	0.085	0.256	0.117	0.017

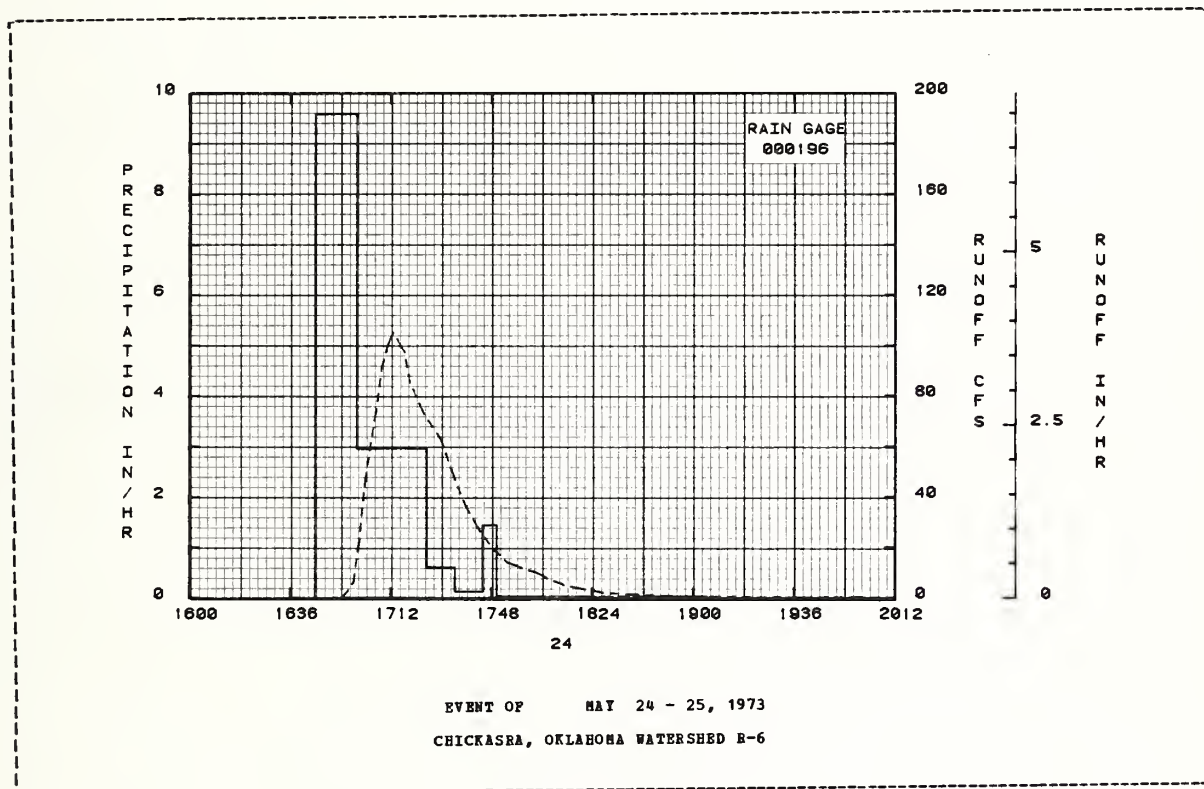
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.874418. STA AV based on 8 yr (1966-73) record period.

1973 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED R-6									
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF		
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)
EVENT OF MAY 24 - 25, 1973									
RG 000196			RG 000196						
5-24	0.0	0.0	5-24	1645	0.0	0.0	5-24	1651	0.0
				1700	9.6000	2.40		1653	0.067
				1725	2.9520	3.63		1655	0.820
				1735	0.6000	3.73		1657	3.075
				1745	0.1200	3.75		1659	6.594
				1750	1.4400	3.87		1701	23.710
				1905	0.0240	3.90		1703	46.780
								1707	75.160
								1709	91.650
								1711	100.200
								1713	105.100
								1717	97.280
								1719	85.340
								1724	72.740
								1730	62.820
								1735	46.780
								1739	36.080
								1744	26.180
								1749	18.860
								1754	13.800
								1759	11.880
								1804	9.905
								1808	7.739
								1814	5.082
								1819	3.676
								1828	2.064
								1838	1.288
								1850	0.723
								1907	0.343
								1937	0.120

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.036434.

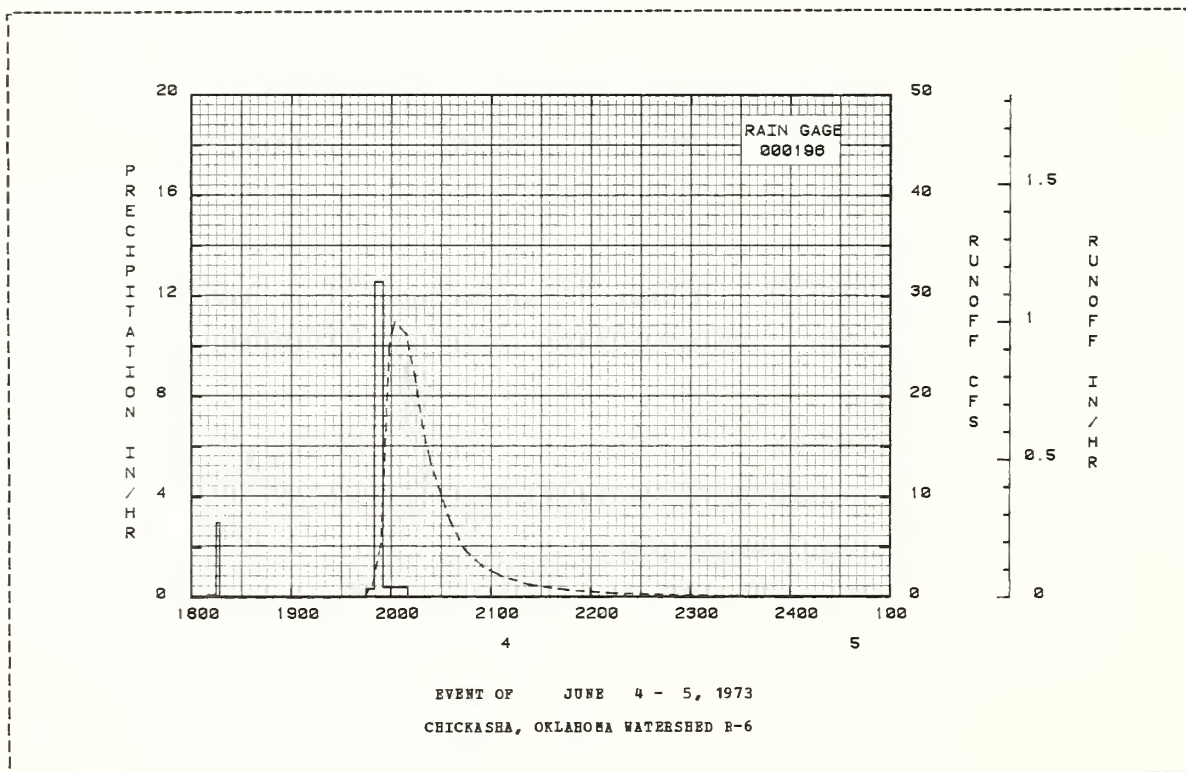
1973 SELECTED RUNOFF EVENT			CHICKASAW, OKLAHOMA WATERSHED R-6							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973 (CONTINUED)										
							5-24	2001	0.057	2.0583
								2025	0.032	2.0589
								2103	0.015	2.0595
								2213	0.005	2.0599
								2400	0.002	2.0601
							5-25	131	0.001	2.0602
								1200	0.0	2.0604
								1324	0.0	2.0604

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.036434.



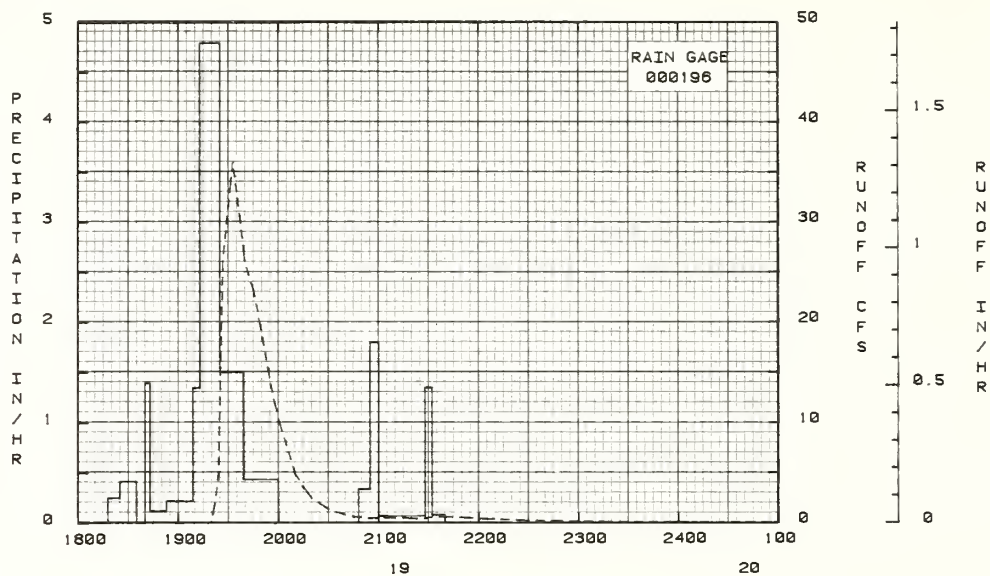
1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED R-6							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 4 - 5, 1973										
6- 4	RG 000196	0.0	6- 4	RG 000196			6- 4	1821	0.0	0.0
	0.0	0.0		1810	0.0	0.0		1844	0.0	0.0
				1815	0.1200	0.01		1906	0.002	0.0000
				1817	3.0000	0.11		1924	0.003	0.0000
				1900	0.0140	0.12		1937	0.003	0.0001
				1945	0.0	0.12				
WATERSHED CONDITIONS: 100% rangeland, native grass continuously grazed by beef cattle during recent years.				1950	0.3600	0.15		1944	0.067	0.0002
				1955	12.6000	1.20		1949	1.426	0.0025
				2010	0.4000	1.30		1954	5.397	0.0128
								1959	25.340	0.0594
								2002	27.480	0.1076
								2009	26.180	0.2217
								2014	22.140	0.2950
								2019	16.840	0.3543
								2024	13.230	0.3999
								2035	7.739	0.4699
								2044	4.778	0.5041
								2055	3.075	0.5303
								2107	2.064	0.5490
								2123	1.288	0.5653
								2147	0.723	0.5800
								2216	0.406	0.5899
								2252	0.237	0.5969
								2331	0.136	0.6014
								2400	0.091	0.6034
							6- 5	51	0.057	0.6056
								157	0.032	0.6074
								354	0.015	0.6091
								724	0.005	0.6104
								1200	0.001	0.6109
								1850	0.0	0.6110

NOTES: To convert runoff in CFS to IN/HR, multiply by 0.036434.



1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED R-6							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Rnnoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF NOVEMBER 19 - 20, 1973										
RG 000196			RG 000196							
11-19	0.0	0.0	11-19	1818	0.0	0.0	11-19	1918	0.0	0.0
				1825	0.2571	0.03		1920	0.172	0.0001
				1835	0.4200	0.10		1922	2.064	0.0014
				1840	0.0	0.10		1924	4.344	0.0055
				1843	1.4000	0.17		1927	26.180	0.0337
WATERSHED CONDITIONS: 100% rangeland, native grass continuously grazed by beef cattle during recent years.				1853	0.1200	0.19		1930	31.600	0.0872
				1909	0.2250	0.25		1932	34.540	0.1248
				1913	1.3500	0.34		1933	36.080	0.1449
				1925	4.8000	1.30		1937	30.650	0.2256
				1939	1.5000	1.65		1940	26.180	0.2782
				2000	0.4286	1.80		1945	23.310	0.3557
				2048	0.0	1.80		1950	19.200	0.4192
				2055	0.3429	1.84		1954	15.270	0.4609
				2100	1.8000	1.99		1958	11.880	0.4938
				2128	0.0643	2.02		2001	9.905	0.5139
				2132	1.3500	2.11		2005	7.739	0.5352
				2140	0.0750	2.12		2010	4.929	0.5542
								2015	3.551	0.5675
								2020	2.439	0.5764
								2030	1.356	0.5880
								2040	0.820	0.5945
								2045	0.633	0.5968
								2054	0.475	0.5998
								2059	0.512	0.6013
								2104	0.551	0.6029
								2110	0.551	0.6049
								2118	0.475	0.6074
								2123	0.406	0.6087
								2128	0.475	0.6101
								2132	0.591	0.6113
								2144	0.591	0.6156
								2152	0.512	0.6183
								2209	0.343	0.6227
								2230	0.214	0.6263
								2250	0.136	0.6284
								2320	0.067	0.6303
								2400	0.032	0.6315
							11-20	32	0.020	0.6320
								158	0.005	0.6326
								310	0.002	0.6328
								548	0.0	0.6329
								932	0.0	0.6329

NOTES: To convert rnnoff in CFS to IN/HR, multiply by 0.036434.



EVENT OF NOVEMBER 19 - 20, 1973
CHICKASHA, OKLAHOMA WATERSHED R-6

CRICKASRA, OKLAHOMA WATERSHED R-7

LOCATION: Grady County, Oklahoma; NW 1/4, sec. 13, T. 7 N., R. 6 W., about 8 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 04 min. 58 sec. N.; Long. 97 deg. 47 min. 27 sec. W.

AREA: 19.19 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CRICKASRA, OKLAHOMA WATERSHED R-7											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1973	P	3.10	0.46	5.87	2.56	7.76	5.87	3.68	2.10	6.51	3.31	3.49	0.12	44.83											
	Q	0.829	0.0	2.167	0.466	3.931	2.365	0.429	0.481	1.138	0.732	1.677	0.0	14.214											
STA AV	P	1.04	0.98	2.17	2.82	4.48	3.03	2.52	2.57	4.38	3.35	1.60	1.00	29.94											
	Q	0.162	0.072	0.425	0.625	1.113	0.794	0.315	0.205	0.770	0.848	0.359	0.079	5.769											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		5-24	5.059	5-24	2.185	5-24	2.311	5-24	2.320	5-24	2.320	5-23	2.320	5-23	2.320	5-22	2.667	5-24	3.705						
MAXIMUMS FOR PERIOD OF RECORD																									
		5-24	5.059	5-24	2.185	5-24	2.311	5-24	2.320	5-24	2.320	10-30	2.362	11-10	2.988	5-24	3.705								
		1973		1973		1973		1973		1973		1973		1972		1972		1973							

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935 when the land use was changed to pasture because of severe erosion. Range condition class during the year was poor to fair. The vegetative cover late Nov. 1973 based on 25 uniformly spaced clipped samples, averaged 546 pounds of standing grass, 244 pounds of weeds, and 691 pounds per acre of mulch. Prior to Oct. 1970, this watershed was within the same pasture area as Watershed R-8, however, it was enclosed by separate fence in order to implement an improved management program. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.44-1 and 69.44-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 193 and 194. Precipitation and runoff records began July 1, 1966. STA AV based on 8 yr (1966-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Okla.

1973 DAILY PRECIPITATION (inches)														CRICKASRA, OKLAHOMA WATERSHED R-7											
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec												
	1	0.0	0.0	0.10	0.0	0.0	0.57	0.0	0.0	0.39	0.0	0.0	0.0												
	2	0.38	0.0	0.0	0.36	0.0	1.75	0.0	0.0	0.0	0.0	0.0	0.0												
	3	0.76	0.0	0.20	0.04	0.0	0.0	0.0	0.0	0.05	0.37	0.0	0.12												
	4	0.0	0.0	0.0	0.0	0.0	1.14	0.0	0.0	0.07	0.36	0.0	0.0												
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.55	0.19	0.0	0.0												
	6	0.24	0.0	1.09	0.0	0.71	0.0	0.0	0.0	1.30	0.08	0.02	0.0												
	7	0.11	0.22	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.01	0.0												
	8	0.0	0.0	0.15	0.36	0.0	0.0	0.0	0.0	0.20	0.0	0.01	0.0												
	9	0.0	0.0	0.03	0.0	0.0	0.0	0.0	1.27	0.0	0.0	0.0	0.0												
	10	0.0	0.0	1.01	0.0	0.0	0.0	0.33	0.0	0.0	0.0	0.0	0.0												
	11	0.0	0.0	0.0	0.0	0.0	0.04	0.0	0.0	0.0	0.94	0.0	0.0												
	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.92	0.43	0.0	0.0												
	13	0.0	0.0	0.15	0.15	0.0	0.22	0.65	0.0	0.0	0.0	0.0	0.0												
	14	0.0	0.0	0.0	0.03	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.0												
	15	0.0	0.0	0.0	0.79	0.0	0.0	0.0	0.83	0.0	0.0	0.0	0.0												
	16	0.0	0.0	0.0	0.0	0.0	0.51	0.0	0.0	0.0	0.0	0.0	0.0												
	17	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.50	0.0	0.0	0.0												
	18	0.0	0.01	0.0	0.0	0.0	0.75	0.0	0.0	0.0	0.0	0.0	0.0												
	19	0.0	0.0	0.0	0.60	0.0	0.47	0.0	0.0	0.0	0.0	2.05	0.0												
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.09	0.0												
	21	0.75	0.0	0.0	0.0	0.02	0.0	0.17	0.0	0.0	0.0	0.0	0.0												
	22	0.0	0.10	0.0	0.21	1.26	0.0	1.36	0.0	0.32	0.0	0.0	0.0												
	23	0.0	0.0	1.81	0.0	0.13	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	24	0.0	0.0	1.05	0.02	3.34	0.0	0.0	0.0	0.0	0.0	1.21	0.0												
	25	0.42	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
	26	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.70	0.40	0.0	0.0												
	27	0.05	0.0	0.11	0.0	0.0	0.0	0.0	0.0	0.46	0.54	0.10	0.0												
	28	0.0	0.0	0.0	0.0	0.0	0.19	0.03	0.0	0.0	0.0	0.0	0.0												
	29	0.0	0.0	0.05	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0												
	30	0.0	0.0	0.12	0.0	0.98	0.0	0.67	0.0	0.0	0.0	0.0	0.0												
	31	0.16	0.0	0.0	0.0	1.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0												
TOTAL		3.10	0.46	5.87	2.56	7.76	5.87	3.68	2.10	6.51	3.31	3.49	0.12												
STA AV		1.04	0.98	2.17	2.82	4.48	3.03	2.52	2.57	4.38	3.35	1.60	1.00												

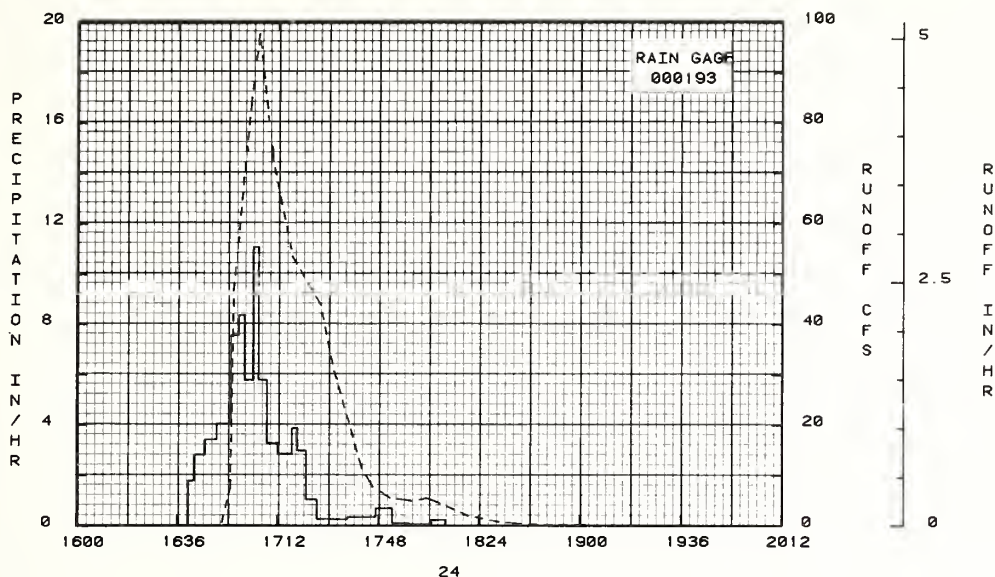
NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 193 and 194. STA AV based on 8 yr (1966-73) record period.

1973 MEAR DAILY DISCHARGE (cfs) CRICKASBA, OKLAHOMA WATERSHED E-7												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.0 T	0.0	0.214	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.012	0.0	0.738	0.0	0.0	0.0	0.0	0.0	0.0
3	0.237	0.0	0.0	0.011	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.553	0.0	0.0	0.0	0.059	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.302	0.0	0.115	0.0	0.0	0.0	0.105	0.008	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.266	0.0	0.0	0.0	0.0
10	0.0	0.0	0.360	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.217	0.0	0.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.258	0.088	0.0	0.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.045	0.0	0.001	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	0.001	0.0	0.0	0.193	0.0	0.0	0.0	0.122	0.0	0.0	0.0	0.0
16	0.131	0.0	0.0	0.0	0.0	0.037	0.0	0.0	0.0	0.0	0.0	0.0
17	0.012	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.003	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.201	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.159	0.0	0.164	0.0	0.0	0.0	0.0	0.901	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.005	0.0	0.0	0.0	0.001	0.0
21	0.192	0.0	0.0	0.0	0.0	0.0	0.001	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0 T	0.225	0.0	0.274	0.0	0.010	0.0	0.0	0.0
23	0.0	0.0	0.588	0.0	0.055	0.0	0.018	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.471	0.0	1.870	0.0	0.0	0.0	0.0	0.0	0.450	0.0
25	0.008	0.0	0.015	0.0	0.0 T	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.089	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.441	0.0	0.0	0.0
27	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.100	0.218	0.0	0.0
28	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.002	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.002	0.0	0.256	0.0	0.002	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.002	0.0	0.647	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0216	0.0	0.0564	0.0125	0.1022	0.0636	0.0112	0.0125	0.0306	0.0190	0.0451	0.0
INCBES	0.829	0.0	2.167	0.466	3.931	2.365	0.429	0.481	1.138	0.732	1.677	0.0
STA AV	0.162	0.072	0.425	0.625	1.113	0.794	0.315	0.205	0.770	0.848	0.359	0.079

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 1.240315. STA AV based on 8 yr (1966-73) record period.

1973 SELECTED RUNOFF EVENT CRICKASBA, OKLAHOMA WATERSHED E-7										
ANTECEDENT CONDITIONS			RAINFALL							
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973										
EG 000193										
5-24	0.0	0.0	5-24	1640	0.0	0.0	5-24	1647	0.0	0.0
				1642	1.8000	0.06		1650	0.078	0.0001
				1646	2.8500	0.25		1652	0.768	0.0008
				1650	3.4500	0.48		1655	7.718	0.0118
				1655	4.0800	0.82		1656	46.930	0.0352
WATERSHED CONDITIONS:										
Range condition class during the year was poor to fair.										
				1658	7.6000	1.20		1702	83.760	0.3733
				1700	8.3982	1.48		1705	97.900	0.6082
				1703	5.8014	1.77		1710	72.640	0.9751
				1705	11.0976	2.14		1717	53.360	1.3550
				1708	5.8000	2.43		1724	46.930	1.6574
				1712	3.3000	2.65		1727	43.910	1.7749
				1717	2.8800	2.89		1732	30.650	1.9353
				1719	3.9000	3.02		1742	11.340	2.1162
				1722	3.0000	3.17		1746	7.718	2.1491
				1726	1.0500	3.24		1752	5.543	2.1833
				1737	0.2727	3.29		1800	4.914	2.2194
				1747	0.3600	3.35		1805	5.543	2.2419
				1753	0.7000	3.42		1810	4.472	2.2634
				1759	0.1000	3.43		1820	2.058	2.2915
				1807	0.0750	3.44		1831	0.818	2.3052
				1812	0.2400	3.46		1839	0.342	2.3092
								1902	0.172	2.3143
								1926	0.067	2.3167
								2010	0.020	2.3184
								2236	0.003	2.3198
								2400	0.002	2.3200
								200	0.0	2.3201
								5-25		

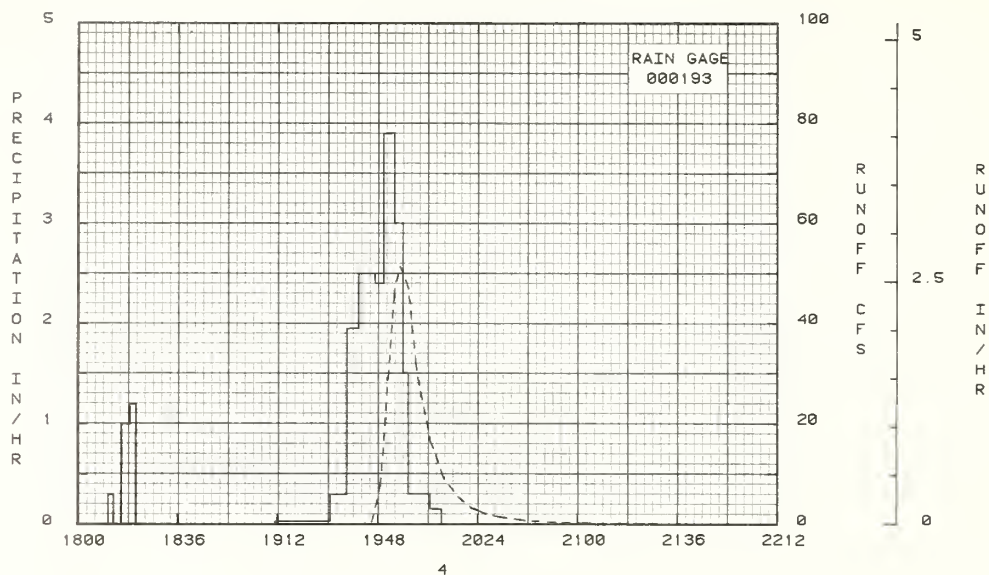
NOTES: To convert CFS to IN/HR, multiply by 0.051680.



EVENT OF MAY 24 - 25, 1973
CHICKASHA, OKLAHOMA WATERSHED R-7

1973 SELECTED RUNOFF EVENT			CHICKASHA, OKLAHOMA WATERSHED R-7							
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF JUNE 4 - 5, 1973										
6- 4	RG 000193 0.0	0.0	6- 4	RG 000193 1811	0.0	0.0	6- 4	1816	0.0	0.0
				1813	0.3000	0.01		1822	0.001	0.0
				1816	0.0	0.01		1902	0.0	0.0000
				1819	1.0000	0.06		1932	0.0	0.0000
				1821	1.2000	0.10		1936	0.0	0.0000
WATERSHED CONDITIONS: Range condition class during the year was poor to fair.				1911	0.0	0.10		1938	0.020	0.0000
				1931	0.0300	0.11		1944	0.153	0.0005
				1937	0.3000	0.14		1946	0.549	0.0011
				1941	1.9500	0.27		1949	7.718	0.0118
				1947	2.5000	0.52		1952	30.650	0.0612
				1950	2.4000	0.64		1954	46.930	0.1282
				1952	3.9000	0.77		1956	51.370	0.2126
				1954	3.9000	0.90		1959	46.930	0.3397
				1957	3.0000	1.05		2002	30.650	0.4400
				1959	1.5000	1.10		2007	16.490	0.5414
			2007	0.3000	1.14		2012	8.975	0.5964	
			2011	0.1500	1.15		2017	5.381	0.6272	
							2022	3.180	0.6457	
							2027	2.058	0.6570	
							2032	1.421	0.6644	
							2041	0.721	0.6727	
							2052	0.342	0.6778	
							2102	0.213	0.6802	
							2115	0.120	0.6820	
							2142	0.047	0.6840	
							2238	0.011	0.6854	
							2400	0.003	0.6859	
							6- 5	302	0.0	0.6861

NOTES: To convert CFS to IN/HR, multiply by 0.051680.



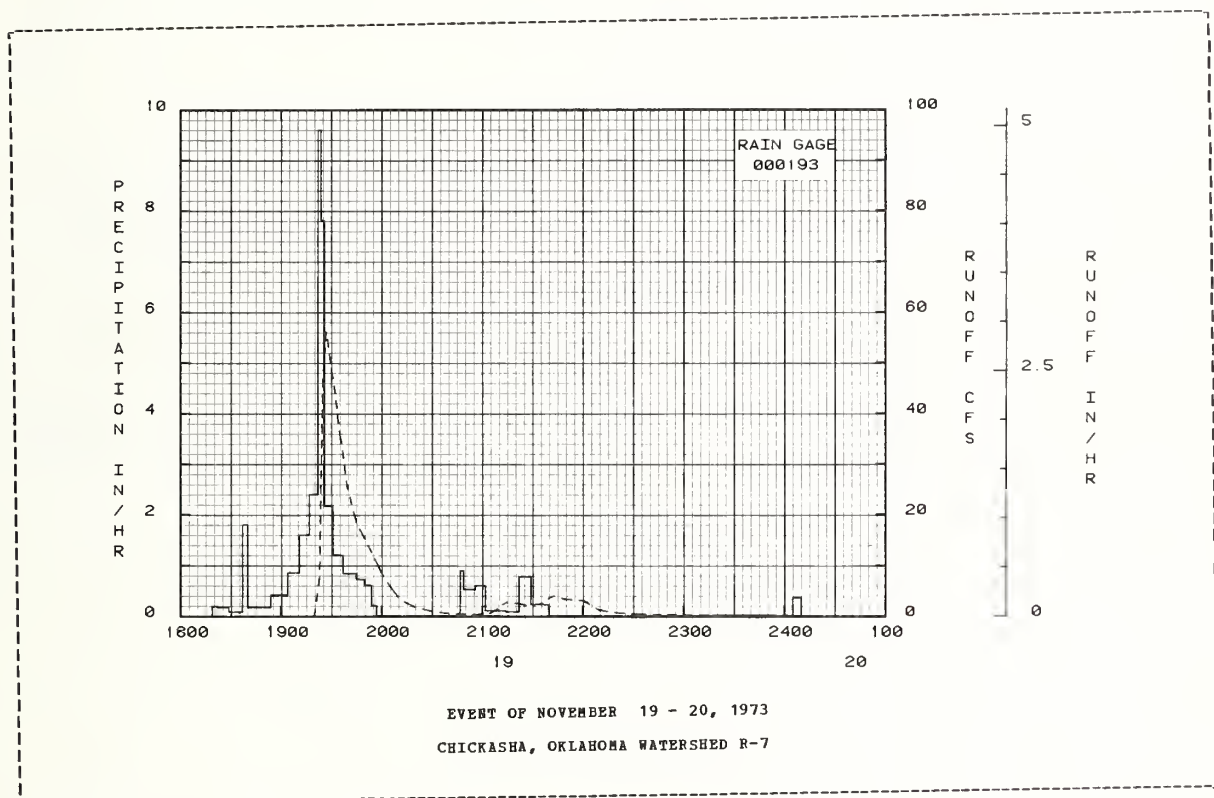
EVENT OF JUNE 4 - 5, 1973
CHICKASAW, OKLAHOMA WATERSHED R-7

1973 SELECTED RUNOFF EVENT						CHICKASAW, OKLAHOMA WATERSHED R-7				
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF NOVEMBER 19 - 20, 1973										
11-19	RG 000193 0.0	0.0	11-19	RG 000193			11-19	1920	0.0	0.0
				1819	0.0	0.0		1923	7.718	0.0101
				1822	0.2000	0.01		1925	46.930	0.0543
				1829	0.1714	0.03		1927	56.080	0.1478
				1837	0.0750	0.04		1931	46.930	0.3246
				1840	1.8000	0.13				
WATERSHED CONDITIONS: Range condition class during the year was poor to fair.										
				1854	0.1714	0.17		1936	34.070	0.4963
				1904	0.4200	0.24		1940	24.910	0.5975
				1911	0.8571	0.34		1945	18.480	0.6938
				1917	1.6000	0.50		1950	15.240	0.7653
				1922	2.4000	0.70		1958	9.880	0.8515
				1924	9.5980	1.02		2001	7.718	0.8746
				1926	7.8019	1.28		2005	5.875	0.8979
				1931	2.1600	1.46		2010	3.665	0.9182
				1937	1.2000	1.58		2015	2.431	0.9317
				1945	0.8250	1.69		2020	1.721	0.9405
				1950	0.7200	1.75		2030	0.869	0.9517
				1954	0.6000	1.79		2040	0.473	0.9574
				1957	0.2000	1.80		2050	0.313	0.9608
				2047	0.0	1.80		2055	0.286	0.9621
				2049	0.9000	1.83		2100	0.373	0.9636
				2056	0.5143	1.89		2105	0.589	0.9656
				2102	0.6000	1.95		2109	1.351	0.9689
				2114	0.1000	1.97		2112	2.240	0.9737
				2122	0.0750	1.98		2115	2.737	0.9802
				2129	0.7714	2.07		2122	2.334	0.9950
				2140	0.2182	2.11		2126	2.058	1.0026
				2317	0.0	2.11		2132	2.240	1.0138
				2354	0.0162	2.12		2136	2.431	1.0219
			11-20	5	0.0	2.12		2140	3.540	1.0321
				10	0.3600	2.15		2143	3.923	1.0419

NOTES: To convert CFS to IN/HR, multiply by 0.051680.

1973			CHICKASHA, OKLAHOMA WATERSHED R-7							
SELECTED RUNOFF EVENT										
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF NOVEMBER 19 - 20, 1973 (CONTINUED)										
				11-19				2149	3.297	1.0609
								2200	1.802	1.0850
								2210	1.035	1.0971
								2220	0.589	1.1041
								2233	0.342	1.1093
								2251	0.172	1.1133
								2310	0.091	1.1154
								2332	0.047	1.1167
								2400	0.025	1.1176
				11-20				120	0.005	1.1186
								220	0.002	1.1188
								350	0.0	1.1189
								710	0.0	1.1189

NOTES: To convert CFS to IN/HR, multiply by 0.051680.



CHICKASHA, OKLAHOMA WATERSHED R-8

LOCATION: Grady County, Oklahoma; NW 1/4 sec. 13, T. 7 N., R. 6 W., about 8-1/2 miles east and 2-1/2 miles north of Chickasha, Oklahoma; Washita River Basin. Lat. 35 deg. 05 min. 03 sec. N.; Long. 97 deg. 47 min. 11 sec. W.

AREA: 27.55 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														CHICKASHA, OKLAHOMA WATERSHED R-8													
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual													
1973	P	3.32	0.50	5.70	2.62	8.05	5.73	3.69	1.96	6.78	3.33	3.51	0.11	45.30													
	Q	0.430	0.0	1.783	0.383	3.515	1.914	0.225	0.240	0.624	0.390	1.500	0.000	11.005													
STA AV	P	1.09	1.06	2.19	2.80	4.62	2.98	2.59	2.49	4.44	3.33	1.64	1.02	30.25													
	Q	0.073	0.034	0.304	0.371	0.874	0.553	0.195	0.095	0.490	0.568	0.247	0.049	3.853													
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																											
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days									
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		5-24	4.813	5-24	2.148	5-24	2.304	5-24	2.323	5-24	2.327	5-24	2.330	5-24	2.330	5-22	2.559	5-24	3.328								
MAXIMUMS FOR PERIOD OF RECORD																											
		5-24	4.813	5-24	2.148	5-24	2.304	5-24	2.323	5-24	2.327	5-24	2.330	5-22	2.559	5-24	3.328										
		1973		1973		1973		1973		1973		1973		1973		1973		1973									

NOTES: Watershed conditions: Formerly cultivated from about 1907 until about 1935, when land use was changed to pasture because of severe erosion. Range condition class during the year was poor to fair. The vegetative cover in mid-Nov. 1973, based on 25 uniformly spaced clipped samples, average 2,110 pounds of standing grass, 487 pounds of weeds, and 1,180 pounds per acre of mulch. For general description and map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1966, USDA Misc. Pub. 1226, pp. 69.45-1 and 69.45-3. Monthly precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. Precipitation and runoff records began July 1, 1966. STA AV based on 8 yr (1966-73) record period. For long-time precipitation records, see National Weather Service records at Chickasha, Oklahoma.

1973 DAILY PRECIPITATION (inches)														CHICKASEA, OKLAHOMA WATERSHED R-8													
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec														
	1	0.0	0.0	0.07	0.0	0.0	0.59	0.0	0.0	0.37	0.0	0.0	0.0														
	2	0.41	0.0	0.0	0.36	0.0	1.66	0.0	0.0	0.0	0.0	0.0	0.0														
	3	0.75	0.0	0.19	0.04	0.0	0.0	0.0	0.0	0.05	0.39	0.0	0.11														
	4	0.0	0.0	0.0	0.0	0.0	1.14	0.0	0.0	0.11	0.34	0.0	0.0														
	5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.58	0.20	0.0	0.0														
	6	0.34	0.0	0.99	0.0	0.69	0.0	0.0	0.0	1.43	0.09	0.03	0.0														
	7	0.16	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.01	0.0														
	8	0.0	0.0	0.17	0.36	0.0	0.0	0.0	0.0	0.20	0.0	0.01	0.0														
	9	0.0	0.0	0.03	0.0	0.0	0.0	0.0	1.16	0.0	0.0	0.0	0.0														
	10	0.0	0.0	0.84	0.0	0.0	0.0	0.28	0.0	0.0	0.0	0.0	0.0														
	11	0.0	0.0	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.85	0.0	0.0														
	12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.90	0.45	0.0	0.0														
	13	0.0	0.0	0.14	0.23	0.0	0.18	0.55	0.0	0.0	0.0	0.0	0.0														
	14	0.0	0.0	0.0	0.03	0.0	0.10	0.0	0.0	0.0	0.0	0.0	0.0														
	15	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.80	0.0	0.0	0.0	0.0														
	16	0.0	0.0	0.0	0.0	0.0	0.54	0.0	0.0	0.0	0.0	0.0	0.0														
	17	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0														
	18	0.0	0.02	0.0	0.0	0.0	0.66	0.0	0.0	0.0	0.0	0.0	0.0														
	19	0.0	0.0	0.0	0.54	0.0	0.51	0.0	0.0	0.0	0.0	2.06	0.0														
	20	0.0	0.0	0.0	0.0	0.0	0.0	0.47	0.0	0.0	0.0	0.08	0.0														
	21	0.76	0.0	0.0	0.0	0.04	0.0	0.17	0.0	0.0	0.0	0.0	0.0														
	22	0.0	0.11	0.0	0.25	1.31	0.0	1.51	0.0	0.39	0.0	0.0	0.0														
	23	0.0	0.0	1.86	0.0	0.14	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	24	0.0	0.0	1.10	0.01	3.64	0.0	0.0	0.0	0.0	0.0	1.25	0.0														
	25	0.46	0.09	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
	26	0.23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.70	0.46	0.0	0.0														
	27	0.04	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.46	0.55	0.07	0.0														
	28	0.0	0.0	0.0	0.0	0.0	0.18	0.05	0.0	0.0	0.0	0.0	0.0														
	29	0.0	0.0	0.06	0.0	0.0	0.12	0.0	0.0	0.0	0.0	0.0	0.0														
	30	0.0	0.13	0.0	0.0	0.86	0.0	0.66	0.0	0.0	0.0	0.0	0.0														
	31	0.17	0.0	0.0	1.37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0														
TOTAL		3.32	0.50	5.70	2.62	8.05	5.73	3.69	1.96	6.78	3.33	3.51	0.11														
STA AV		1.09	1.06	2.19	2.80	4.62	2.98	2.59	2.49	4.44	3.33	1.64	1.02														

NOTES: Precipitation obtained from Thiessen weighted rainfall values from two gages, Nos. 197 and 198. STA AV based on 8 yr (1966-73) record period.

1973 MEAN DAILY DISCHARGE (cfs) CHICKASHA, OKLAHOMA WATERSHED R-8												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.0	0.0	0.002	0.003	0.222	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.012	0.003	0.976	0.0	0.0	0.0	0.0	0.0	0.0
3	0.142	0.0	0.0	0.013	0.002	0.020	0.0	0.0	0.0	0.0 T	0.0	0.0 T
4	0.0	0.0	0.0	0.0 T	0.002	0.687	0.0	0.0	0.0	0.052	0.0	0.0
5	0.0	0.0	0.0	0.0	0.001	0.015	0.0	0.0	0.0	0.0 T	0.0	0.0
6	0.0	0.0	0.199	0.0	0.093	0.003	0.0	0.0	0.053	0.005	0.0	0.0
7	0.0	0.0	0.0	0.0	0.003	0.001	0.0	0.0	0.0	0.0	0.0	0.0
8	0.0	0.0	0.0	0.010	0.003	0.001	0.0	0.0	0.0	0.0	0.0	0.0
9	0.0	0.0	0.0	0.001	0.003	0.001	0.0	0.149	0.0	0.0	0.0	0.0
10	0.0	0.0	0.299	0.001	0.003	0.001	0.0 T	0.0	0.0	0.0	0.0	0.0
11	0.0	0.0	0.001	0.001	0.003	0.001	0.0 T	0.0	0.0	0.126	0.0	0.0
12	0.0	0.0	0.0	0.0 T	0.003	0.001	0.0	0.0	0.178	0.062	0.0	0.0
13	0.0	0.0	0.002	0.0	0.003	0.002	0.022	0.0	0.001	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.003	0.003	0.0 T	0.0	0.0	0.0	0.0	0.0
15	0.021	0.0	0.0	0.217	0.002	0.0 T	0.0	0.129	0.0	0.0	0.0	0.0
16	0.043	0.0	0.0	0.002	0.003	0.035	0.0	0.0 T	0.0	0.0	0.0	0.0
17	0.002	0.0	0.0	0.001	0.002	0.001	0.0	0.0	0.005	0.0	0.0	0.0
18	0.0	0.0	0.0	0.001	0.002	0.124	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.143	0.002	0.118	0.0	0.0	0.0	0.0	1.221	0.0
20	0.0	0.0	0.0	0.003	0.002	0.0	0.005	0.0	0.0	0.0	0.003	0.0
21	0.187	0.0	0.0	0.003	0.002	0.0	0.001	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.008	0.213	0.0	0.214	0.0	0.020	0.0	0.0	0.0
23	0.0	0.0	0.675	0.003	0.064	0.0	0.011	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.814	0.003	2.690	0.0	0.0	0.0	0.0	0.0	0.513	0.0
25	0.013	0.0	0.054	0.003	0.009	0.0	0.0	0.0	0.0	0.0	0.0 T	0.0
26	0.089	0.0	0.002	0.003	0.0	0.0	0.0	0.0	0.390	0.009	0.0	0.0
27	0.0 T	0.0	0.005	0.003	0.0	0.0	0.0	0.0	0.075	0.198	0.0 T	0.0
28	0.0	0.0	0.003	0.003	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
29	0.0	0.0	0.002	0.003	0.0	0.001	0.0	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.006	0.003	0.124	0.0	0.006	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.002	0.003	0.823	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MEAN	0.0161	0.0	0.0666	0.0148	0.1312	0.0739	0.0084	0.0090	0.0241	0.0146	0.0579	0.0
INCHES	0.430	0.0	1.783	0.383	3.515	1.914	0.225	0.240	0.624	0.390	1.500	0.000
STA AV	0.073	0.034	0.304	0.371	0.874	0.553	0.195	0.095	0.490	0.568	0.247	0.049

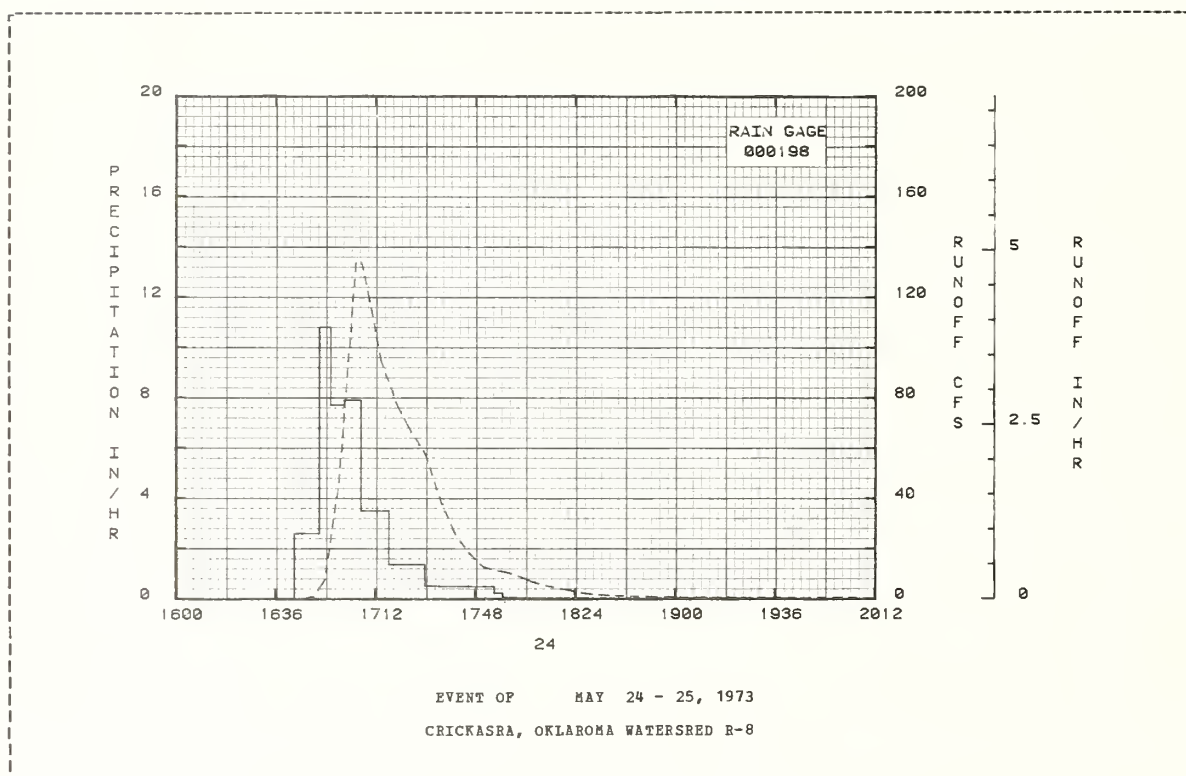
NOTES: To convert discharge in CFS to IN/DAY, multiply by 0.863944. STA AV based on 8 yr (1966-73) record period.

1973 SELECTED RUNOFF EVENT CHICKASHA, OKLAHOMA WATERSHED R-8										
ANTECEDENT CONDITIONS			RAINFALL				RUNOFF			
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973										
RG 000198			RG 000198							
5-24	0.0	0.0	5-24	1643	0.0	0.0	5-24	1646	0.0	0.0
				1652	2.6000	0.39		1650	0.766	0.0009
				1656	10.7977	1.11		1654	7.688	0.0111
				1701	7.6800	1.75		1659	46.430	0.0921
				1707	7.9000	2.54		1705	133.700	0.4167
WATERSHED CONDITIONS: Range condition class during the year was poor to fair.				1717	3.4800	3.12		1707	133.700	0.5765
				1730	1.3385	3.41		1710	118.000	0.8032
				1746	0.4875	3.54		1714	94.820	1.0585
				1755	0.4667	3.61		1720	76.320	1.3668
				1758	0.2000	3.62		1725	66.080	1.5802
				1925	0.0138	3.64		1730	57.430	1.7658
								1736	37.380	1.9362
								1741	25.160	2.0299
								1746	17.710	2.0944
								1751	12.330	2.1394
								1801	9.839	2.2059
								1806	7.688	2.2322
								1811	5.686	2.2522
								1821	3.287	2.2792
								1830	1.562	2.2923
								1836	1.152	2.2971
								1851	0.629	2.3051
								1911	0.341	2.3110
								1930	0.213	2.3141
								2000	0.119	2.3171
								2100	0.057	2.3203
								2230	0.032	2.3227
								2400	0.025	2.3242
							5-25	140	0.020	2.3256
								810	0.020	2.3303

NOTES: To convert CFS to IN/HR, multiply by 0.035998.

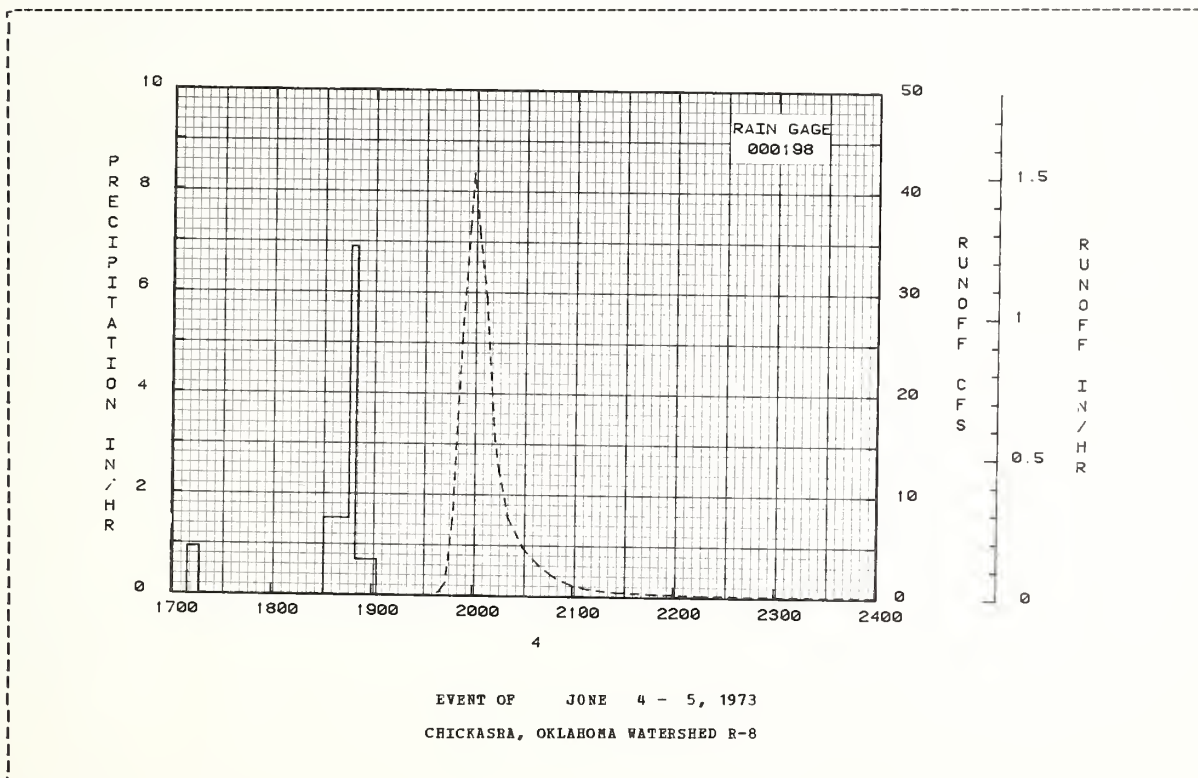
1973 SELECTED RUNOFF EVENT			CHICKASBA, OKLAHOMA WATERSHED R-8							
ANTECEDENT CONDITIONS			RAINFALL			RUNOFF				
Date	Rainfall	Runoff	Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	(inches)	(inches)	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
EVENT OF MAY 24 - 25, 1973 (CONTINUED)										
				5-25			1200		0.002	2.3318
							1300		0.001	2.3318
							2030		0.0	2.3319

NOTES: To convert CFS to IN/HR, multiply by 0.035998.



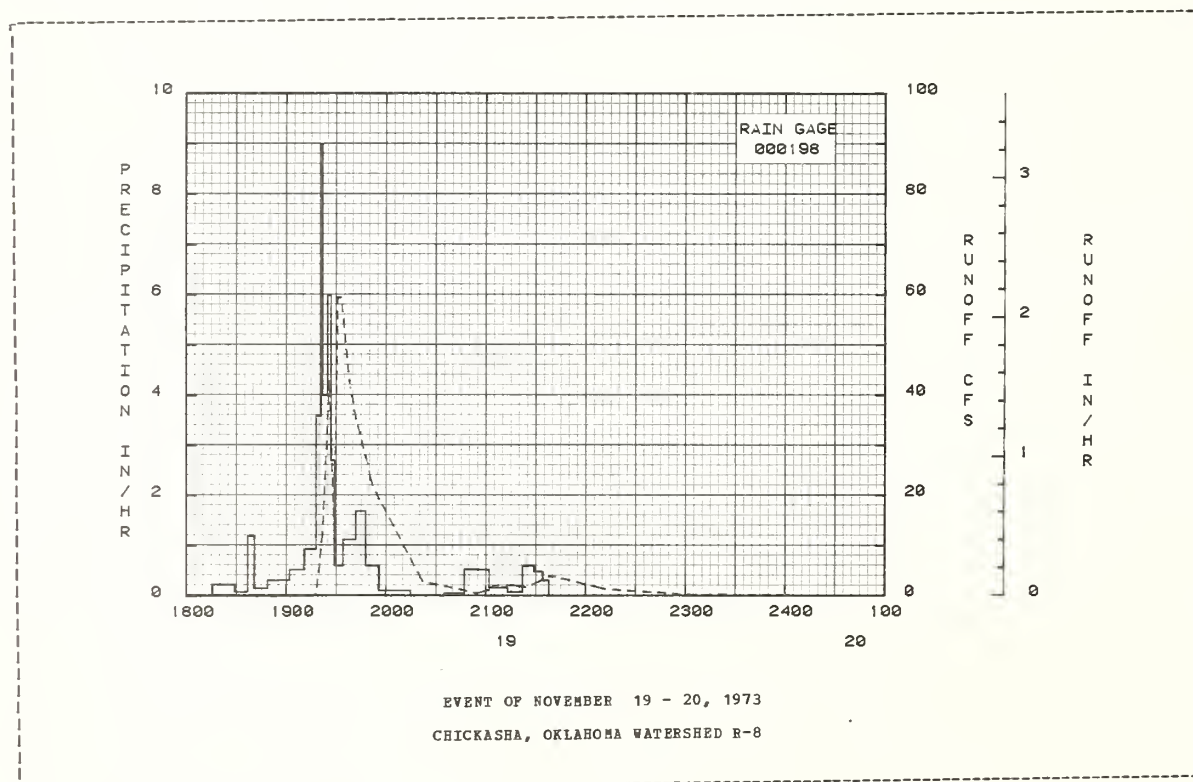
1973 SELECTED RONOFF EVENT			CRICKASHA, OKLAHOMA WATERSHED R-8							
ANTECEDENT CONDITIONS			RAINFALL				RONOFF			
Date Mo-Day	Rainfall (inches)	Runoff (inches)	Date Mo-Day	Time of Day	Intensity (in/hr)	Acc. (inches)	Date Mo-Day	Time of Day	Rate (cfs)	Acc. (inches)
EVENT OF JUNE 4 - 5, 1973										
RG 000198			RG 000198							
6- 4	0.0	0.0	6- 4	1710	0.0	0.0	6- 4	1730	0.0	0.0
				1717	0.9429	0.11		1803	0.0	0.0
				1831	0.0	0.11		1813	0.001	0.0
				1846	1.5200	0.49		1816	0.005	0.0000
				1850	6.9000	0.95		1819	0.025	0.0000
WATERSHED CONDITIONS:			1903				1833			
Range condition class during			0.6923				0.015			
the year was poor to fair.			1.10				0.011			
							1935			
							0.011			
							1940			
							0.341			
							1944			
							1.280			
							1948			
							7.688			
							0.0139			
							1953			
							25.990			
							0.0645			
							1957			
							36.330			
							0.1393			
							1959			
							41.750			
							0.1859			
							2003			
							35.300			
							0.2784			
							2007			
							29.500			
							0.3561			
							2013			
							15.170			
							0.4366			
							2016			
							11.800			
							0.4609			
							2021			
							7.688			
							0.4901			
							2030			
							4.747			
							0.5237			
							2040			
							2.944			
							0.5468			
							2050			
							1.716			
							0.5607			
							2100			
							1.032			
							0.5690			
							2110			
							0.673			
							0.5741			
							2126			
							0.403			
							0.5793			
							2150			
							0.260			
							0.5840			
							2220			
							0.135			
							0.5876			
							2400			
							0.057			
							0.5934			
							6- 5			
							50			
							0.047			
							0.5949			
							330			
							0.032			
							0.5987			
							913			
							0.008			
							0.6028			
							1200			
							0.008			
							0.6036			
							2400			
							0.005			
							0.6064			

NOTES: To convert CFS to IN/HR, multiply by 0.035998.



1973			CHICKASHA, OKLAHOMA WATERSHED R-8							
SELECTED RUNOFF EVENT			RAINFALL				RUNOFF			
ANTECEDENT	CONDITIONS		Date	Time	Intensity	Acc.	Date	Time	Rate	Acc.
Mo-Day	Rainfall	Runoff	Mo-Day	of Day	(in/hr)	(inches)	Mo-Day	of Day	(cfs)	(inches)
(inches)	(inches)									
EVENT OF NOVEMBER 19 - 20, 1973										
RG 000198			RG 000198							
11-19	0.0	0.0	11-19	1816	0.0	0.0	11-19	1824	0.0	0.0
				1821	0.2400	0.02		1842	0.001	0.0000
				1829	0.2250	0.05		1902	0.005	0.0000
				1837	0.0750	0.06		1908	0.008	0.0001
				1841	1.2000	0.14		1912	0.025	0.0001
WATERSHED CONDITIONS: Range condition class during the year was poor to fair.				1849	0.1500	0.16		1918	0.341	0.0007
				1902	0.3231	0.23		1922	12.860	0.0165
				1911	0.5333	0.31		1926	42.890	0.0832
				1918	0.9429	0.42		1929	10.310	0.1318
				1921	3.6000	0.60		1931	59.520	0.1760
				1922	9.0022	0.75		1933	59.520	0.2429
				1925	4.0000	0.95		1938	42.890	0.4013
				1927	5.9987	1.15		1942	35.300	0.4948
				1929	2.7000	1.24		1948	27.710	0.6055
				1934	0.6000	1.29		1952	21.980	0.6649
				1942	1.1250	1.44		2022	2.835	0.8883
				1948	1.7000	1.61		2054	0.509	0.9205
				1955	0.6000	1.68		2102	1.215	0.9246
				1956	0.6000	1.69		2104	1.879	0.9265
				2015	0.0947	1.72		2108	2.141	0.9313
				2035	0.0	1.72		2116	2.051	0.9414
				2047	0.0500	1.73		2124	1.638	0.9502
				2055	0.5250	1.80		2132	2.835	0.9609
				2102	0.5143	1.86		2134	3.287	0.9647
				2113	0.1636	1.89		2138	3.910	0.9733
				2122	0.0667	1.90		2142	3.780	0.9825
				2129	0.6000	1.97		2146	3.406	0.9911
				2134	0.4800	2.01		2212	1.280	1.0277
				2138	0.3000	2.03		2302	0.213	1.0501
					2400	0.039	1.0544			
					11-20	122	0.011	1.0557		
						432	0.002	1.0564		
						954	0.0	1.0566		

NOTES: To convert CFS to IN/HR, multiply by 0.035998.



TREYNOR, IOWA WATERSHED 1

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Silver Creek, West Nishuabotua River, Missouri River Basin. Lat. 41 deg. 09 min. 51 sec. N.; Long. 95 deg. 38 min. 30 sec. W.

AREA: 74.50 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)								TREYNOR, IOWA WATERSHED 1							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual	
1973	P	1.37	1.11	5.38	3.74	5.03	1.57	5.94	3.31	8.15	2.97	1.33	1.84	41.74	
	Q	1.008	1.252	0.715	1.017	1.206	0.849	0.742	0.748	1.128	0.903	0.632	0.580	10.780	
STA AV	P	0.55	0.61	1.27	3.32	4.79	5.60	4.06	3.46	4.74	3.16	1.35	0.98	33.87	
	Q	0.359	0.594	0.524	0.392	1.117	1.925	0.400	0.455	0.584	0.349	0.286	0.279	7.262	
ANNUAL MAXIMUM DISCHARGE (iu/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS															
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		9-26	0.572	9-26	0.229	9-26	0.243	9-25	0.461	9-25	0.531	9-25	0.550	9-25	0.575
		9-24	0.743												
MAXIMUMS FOR PERIOD OF RECORD															
		6-20	5.835	6-20	3.150	6-20	4.160	6-20	4.224	6-20	4.232	6-20	4.246	6-4	5.979
		1967		1967		1967		1967		1967		1967		1967	

NOTES: Watershed conditions: 93% contoured corn; 7% gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after November 1; Thiessen average of gages 116, 117, 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 10, 1964. January 1 to February 10, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.1-5. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1973 DAILY PRECIPITATION (inches)													TREYNOR, IOWA WATERSHED 1	
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1	0.0	0.71	0.0	0.0	0.26	0.0	0.0	0.0	0.14	0.0	0.0	0.0		
2	0.0	0.0	0.0	0.0	0.0	0.0	0.69	0.0	0.0	0.0	0.0	0.0		
3	0.54	0.0	0.20	0.0	0.0	0.06	1.97	0.0	0.06	0.0	0.0	0.0		
4	0.0	0.0	0.0	0.0	0.0	0.45	0.16	0.0	0.0	0.0	0.0	0.0		0.61
5	0.0	0.0	0.08	0.0	0.32	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
6	0.0	0.0	0.03	0.0	0.30	0.0	0.0	0.0	0.0	0.12	0.0	0.0		0.0
7	0.0	0.10	0.0	0.0	1.68	0.0	0.0	0.60	0.09	0.0	0.0	0.0		0.0
8	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.43	0.0	0.13	0.0		0.0
9	0.0	0.0	0.35	0.03	0.10	0.0	0.29	0.0	0.05	0.0	0.0	0.0		0.0
10	0.0	0.0	0.93	0.0	0.28	0.0	0.0	1.30	0.0	2.23	0.0	0.0		0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.15	0.0	0.62	0.0	0.0		0.0
12	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0		0.0
13	0.0	0.26	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
14	0.0	0.0	0.0	0.0	0.0	0.41	0.10	0.0	0.0	0.0	0.02	0.12		0.12
15	0.0	0.0	0.0	0.94	0.0	0.0	0.0	0.0	0.49	0.0	0.0	0.0		0.0
16	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.06	0.42	0.0	0.0	0.0		0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
18	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.0		0.23
19	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
20	0.09	0.0	0.0	0.0	0.0	0.0	1.97	0.0	0.0	0.0	0.85	0.0		0.0
21	0.36	0.0	0.0	0.0	0.08	0.11	0.40	0.0	0.0	0.0	0.0	0.0		0.0
22	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
23	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.31	0.0		0.0
24	0.0	0.0	0.70	0.41	0.0	0.0	0.35	0.0	0.94	0.0	0.0	0.0		0.65
25	0.0	0.0	0.19	0.48	0.0	0.0	0.0	0.0	1.93	0.0	0.0	0.13		0.13
26	0.04	0.0	0.0	0.04	0.88	0.0	0.0	0.0	2.56	0.0	0.02	0.0		0.0
27	0.28	0.0	0.0	0.0	0.98	0.0	0.0	0.0	0.09	0.0	0.0	0.0		0.0
28	0.0	0.0	0.10	0.0	0.15	0.0	0.0	0.0	0.84	0.0	0.0	0.10		0.10
29	0.0	0.11	0.05	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0		0.0
30	0.0	0.0	1.37	0.0	0.0	0.23	0.0	0.0	0.01	0.0	0.0	0.0		0.0
31	0.0		1.28	0.0	0.0		0.0	0.20		0.0		0.0		0.0
TOTAL	1.37	1.11	5.38	3.74	5.03	1.57	5.94	3.31	8.15	2.97	1.33	1.84		
STA AV	0.55	0.61	1.27	3.32	4.79	5.60	4.06	3.46	4.74	3.16	1.35	0.98		

NOTES: Daily precipitation amounts are from rain gage 117 before April 1 and after November 1; Thiessen weighted average values from stations 116, 117, and 118 for remainder of year. STA AV based on 10 yr record period.

TREYNOR, IOWA WATERSHED 1												
1973 MEAN DAILY DISCHARGE (cfs)												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.038	0.666	0.038	0.108	0.125	0.101	0.063	0.061	0.058	0.089	0.065	0.065
2	0.038	0.104	0.038	0.101	0.116	0.106	0.086	0.061	0.055	0.086	0.065	0.065
3	0.038	0.080	0.040	0.101	0.110	0.107	0.148	0.062	0.056	0.083	0.065	0.065
4	0.038	0.331	0.044	0.101	0.107	0.126	0.163	0.061	0.052	0.079	0.065	0.065
5	0.036	0.150	0.047	0.101	0.117	0.096	0.076	0.062	0.051	0.076	0.065	0.062
6	0.033	0.087	0.047	0.101	0.116	0.092	0.072	0.057	0.049	0.077	0.065	0.060
7	0.032	0.056	0.042	0.101	0.123	0.089	0.072	0.068	0.051	0.076	0.065	0.060
8	0.032	0.055	0.038	0.101	0.157	0.088	0.069	0.060	0.062	0.076	0.065	0.062
9	0.032	0.051	0.063	0.124	0.157	0.088	0.066	0.056	0.055	0.073	0.065	0.060
10	0.032	0.047	0.161	0.116	0.157	0.087	0.063	0.059	0.052	0.220	0.065	0.055
11	0.032	0.049	0.076	0.112	0.129	0.086	0.061	0.534	0.050	0.168	0.065	0.057
12	0.032	0.047	0.070	0.108	0.125	0.089	0.060	0.071	0.050	0.116	0.065	0.060
13	0.032	0.117	0.091	0.101	0.118	0.089	0.061	0.059	0.055	0.107	0.065	0.060
14	0.038	0.055	0.066	0.101	0.117	0.109	0.062	0.062	0.052	0.101	0.065	0.060
15	0.063	0.048	0.065	0.130	0.112	0.115	0.062	0.062	0.058	0.098	0.065	0.057
16	0.546	0.041	0.065	0.112	0.109	0.098	0.059	0.061	0.062	0.095	0.065	0.051
17	0.749	0.035	0.067	0.101	0.111	0.091	0.060	0.065	0.057	0.092	0.065	0.047
18	0.076	0.036	0.065	0.101	0.109	0.089	0.055	0.062	0.054	0.089	0.065	0.049
19	0.042	0.125	0.065	0.103	0.106	0.080	0.061	0.060	0.054	0.089	0.065	0.053
20	0.040	0.804	0.060	0.095	0.106	0.080	0.125	0.057	0.054	0.089	0.084	0.055
21	0.042	0.087	0.055	0.089	0.110	0.081	0.090	0.055	0.052	0.089	0.065	0.055
22	0.052	0.386	0.055	0.089	0.106	0.080	0.076	0.057	0.048	0.086	0.065	0.055
23	0.040	0.235	0.068	0.089	0.108	0.079	0.076	0.060	0.053	0.083	0.073	0.055
24	0.035	0.069	0.078	0.100	0.101	0.074	0.080	0.062	0.093	0.079	0.065	0.067
25	0.044	0.039	0.083	0.117	0.097	0.076	0.076	0.065	0.696	0.077	0.065	0.070
26	0.157	0.038	0.079	0.101	0.122	0.076	0.070	0.065	1.094	0.081	0.065	0.062
27	0.572	0.038	0.092	0.101	0.158	0.074	0.067	0.060	0.093	0.076	0.065	0.060
28	0.057	0.041	0.101	0.101	0.118	0.071	0.064	0.052	0.128	0.076	0.065	0.057
29	0.055		0.101	0.101	0.101	0.066	0.059	0.052	0.096	0.070	0.065	0.055
30	0.051		0.101	0.176	0.099	0.071	0.059	0.052	0.091	0.065	0.065	0.055
31	0.049		0.175		0.099		0.061	0.058		0.065		0.055
MEAN	0.1018	0.1399	0.0722	0.1062	0.1218	0.0886	0.0749	0.0756	0.1177	0.0912	0.0659	0.0586
INCHES	1.008	1.252	0.715	1.017	1.206	0.849	0.742	0.748	1.128	0.903	0.632	0.580
STA AV	0.359	0.594	0.524	0.392	1.117	1.925	0.400	0.455	0.584	0.349	0.286	0.279

NOTES: To convert mean daily discharge in CPS to IN/DAY, multiply by 0.31949. STA AV based on 10 yr record period.

TREYNOR, IOWA WATERSHED 2

LOCATION: Pottawattamie County, Iowa; approximately 6 miles southwest of Treynor; Keg Creek, Missouri River Basin.
Lat. 41 deg. 10 min. 10 sec. N.; Long. 95 deg. 39 min. 00 sec. W.

AREA: 82.80 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)							TREYNOR, IOWA WATERSHED 2												
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual					
1973	P	1.37	1.11	5.38	3.54	4.95	1.48	5.84	3.12	8.19	3.04	1.33	1.84	41.19					
	Q	1.204	1.340	0.889	1.000	1.261	0.892	0.890	0.895	1.476	1.313	0.914	0.929	13.003					
STA AV	P	0.55	0.61	1.32	3.26	4.73	5.56	3.96	3.35	4.81	3.15	1.36	0.98	33.61					
	Q	0.400	0.677	0.585	0.375	0.937	1.819	0.366	0.433	0.597	0.402	0.315	0.339	7.246					
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																			
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		9-26	0.524	9-26	0.248	9-26	0.277	9-25	0.559	9-25	0.660	9-25	0.689	9-25	0.724	9-25	0.959		
MAXIMUMS FOR PERIOD OF RECORD																			
		6-20 1967	4.866	6-20 1967	2.701	6-20 1967	3.693	6-20 1967	3.780	6-20 1967	3.786	6-20 1967	3.796	6-20 1967	3.810	6- 4 1967	5.531		

NOTES: Watershed conditions: 93% contoured corn; 7% gullies and grassed waterways. Precipitation from rain gage 117 before April 1 and after November 1; Thiessen average of rain gages 115, 116, and 118 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 3, 1964. January 1 to February 3, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.2-5. For long-time precipitation records, see National Weather Service records period at Omaha, Nebraska.

1973		DAILY PRECIPITATION (inches)					TREYNOR, IOWA WATERSHED 2						
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	0.0	0.71	0.0	0.0	0.23	0.0	0.0	0.0	0.14	0.0	0.0	0.0	
2	0.0	0.0	0.0	0.0	0.0	0.0	0.68	0.0	0.0	0.0	0.0	0.0	
3	0.54	0.0	0.20	0.0	0.0	0.05	1.95	0.0	0.05	0.0	0.0	0.0	
4	0.0	0.0	0.0	0.0	0.0	0.39	0.18	0.0	0.0	0.0	0.0	0.61	
5	0.0	0.0	0.08	0.0	0.34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
6	0.0	0.0	0.03	0.0	0.30	0.0	0.0	0.0	0.0	0.12	0.0	0.0	
7	0.0	0.10	0.0	0.0	1.66	0.0	0.0	0.55	0.10	0.0	0.0	0.0	
8	0.0	0.0	0.0	0.19	0.0	0.0	0.0	0.0	0.42	0.0	0.13	0.0	
9	0.0	0.0	0.35	0.07	0.11	0.0	0.28	0.0	0.03	0.0	0.0	0.0	
10	0.0	0.0	0.93	0.0	0.24	0.0	0.0	1.07	0.0	2.27	0.0	0.0	
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.24	0.0	0.65	0.0	0.0	
12	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.09	0.0	0.0	0.0	
13	0.0	0.26	0.56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
14	0.0	0.0	0.0	0.0	0.0	0.43	0.10	0.0	0.0	0.0	0.02	0.12	
15	0.0	0.0	0.0	0.90	0.0	0.0	0.0	0.0	0.46	0.0	0.0	0.0	
16	0.0	0.0	0.0	0.15	0.0	0.0	0.0	0.04	0.42	0.0	0.0	0.0	
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
18	0.0	0.0	0.0	0.0	0.0	0.31	0.0	0.0	0.0	0.0	0.0	0.23	
19	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
20	0.09	0.0	0.0	0.0	0.0	0.0	1.90	0.0	0.0	0.0	0.85	0.0	
21	0.36	0.0	0.0	0.0	0.07	0.06	0.40	0.0	0.0	0.0	0.0	0.0	
22	0.06	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
23	0.0	0.0	0.85	0.0	0.0	0.0	0.0	0.0	0.01	0.0	0.31	0.0	
24	0.0	0.0	0.70	0.39	0.0	0.0	0.34	0.0	0.92	0.0	0.0	0.65	
25	0.0	0.0	0.19	0.40	0.0	0.0	0.0	0.0	2.06	0.0	0.0	0.13	
26	0.04	0.0	0.0	0.04	0.79	0.0	0.0	0.0	2.55	0.0	0.02	0.0	
27	0.28	0.0	0.0	0.0	1.05	0.0	0.0	0.0	0.09	0.0	0.0	0.0	
28	0.0	0.0	0.10	0.0	0.16	0.0	0.0	0.0	0.84	0.0	0.0	0.10	
29	0.0	0.0	0.11	0.04	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0	
30	0.0	0.0	0.0	1.31	0.0	0.24	0.0	0.0	0.01	0.0	0.0	0.0	
31	0.0	0.0	1.28	0.0	0.0	0.0	0.0	0.22	0.0	0.0	0.0	0.0	
TOTAL	1.37	1.11	5.38	3.54	4.95	1.48	5.84	3.12	8.19	3.04	1.33	1.84	
STA AV	0.55	0.61	1.32	3.26	4.73	5.56	3.96	3.35	4.81	3.15	1.36	0.98	

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 115, 116, and 118 for period of April 1 through November 1, and from station 117 for remainder of year. STA AV based on 10 yr record period.

1973 MEAN DAILY DISCHARGE (cfs) TREYNOR, IOWA WATERSHED 2												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.055	0.577	0.074	0.147	0.130	0.111	0.087	0.087	0.084	0.132	0.110	0.099
2	0.055	0.132	0.068	0.139	0.106	0.114	0.111	0.087	0.080	0.122	0.105	0.099
3	0.053	0.083	0.066	0.132	0.100	0.118	0.142	0.087	0.080	0.116	0.105	0.099
4	0.049	0.355	0.076	0.124	0.102	0.139	0.267	0.087	0.079	0.111	0.105	0.102
5	0.047	0.202	0.073	0.120	0.115	0.119	0.094	0.088	0.079	0.108	0.105	0.105
6	0.045	0.099	0.073	0.112	0.119	0.115	0.090	0.088	0.079	0.115	0.105	0.102
7	0.041	0.068	0.070	0.116	0.333	0.111	0.090	0.097	0.081	0.110	0.105	0.099
8	0.039	0.062	0.066	0.116	0.175	0.108	0.090	0.100	0.091	0.108	0.105	0.105
9	0.039	0.055	0.078	0.120	0.176	0.104	0.093	0.101	0.083	0.101	0.105	0.102
10	0.039	0.055	0.130	0.121	0.178	0.106	0.090	0.100	0.080	0.412	0.105	0.099
11	0.039	0.055	0.095	0.120	0.156	0.103	0.087	0.527	0.079	0.322	0.105	0.102
12	0.039	0.055	0.094	0.106	0.155	0.103	0.085	0.097	0.084	0.187	0.105	0.105
13	0.039	0.110	0.122	0.100	0.147	0.100	0.086	0.091	0.083	0.181	0.105	0.102
14	0.046	0.068	0.097	0.099	0.148	0.111	0.087	0.090	0.079	0.172	0.105	0.099
15	0.086	0.055	0.094	0.149	0.147	0.101	0.085	0.088	0.090	0.167	0.105	0.099
16	0.894	0.051	0.094	0.132	0.135	0.098	0.086	0.086	0.093	0.163	0.105	0.099
17	1.024	0.049	0.094	0.110	0.136	0.098	0.086	0.081	0.086	0.156	0.105	0.099
18	0.077	0.051	0.094	0.105	0.128	0.112	0.086	0.079	0.080	0.151	0.105	0.103
19	0.053	0.104	0.094	0.105	0.125	0.100	0.094	0.079	0.079	0.144	0.105	0.102
20	0.049	0.924	0.094	0.105	0.124	0.097	0.145	0.084	0.079	0.141	0.132	0.096
21	0.047	0.130	0.091	0.105	0.124	0.099	0.118	0.085	0.079	0.135	0.105	0.094
22	0.047	0.481	0.088	0.105	0.124	0.092	0.094	0.082	0.079	0.132	0.105	0.096
23	0.047	0.426	0.108	0.099	0.117	0.090	0.094	0.083	0.080	0.132	0.115	0.099
24	0.050	0.117	0.122	0.105	0.114	0.091	0.094	0.083	0.113	0.126	0.105	0.140
25	0.049	0.073	0.124	0.122	0.113	0.092	0.091	0.079	0.982	0.126	0.105	0.133
26	0.219	0.073	0.099	0.099	0.140	0.105	0.086	0.079	1.517	0.118	0.105	0.113
27	0.616	0.073	0.107	0.094	0.209	0.094	0.085	0.077	0.134	0.114	0.105	0.110
28	0.090	0.080	0.110	0.094	0.146	0.089	0.085	0.079	0.206	0.116	0.102	0.110
29	0.078		0.110	0.094	0.132	0.089	0.087	0.079	0.164	0.116	0.099	0.107
30	0.073		0.110	0.182	0.122	0.095	0.093	0.079	0.132	0.116	0.099	0.105
31	0.064		0.277		0.111		0.087	0.084		0.116		0.105
MEAN	0.1351	0.1665	0.0998	0.1160	0.1415	0.1034	0.0998	0.1004	0.1712	0.1473	0.1059	0.1042
INCHES	1.204	1.340	0.889	1.000	1.261	0.892	0.890	0.895	1.476	1.313	0.914	0.929
STA AV	0.400	0.677	0.585	0.375	0.937	1.819	0.366	0.433	0.597	0.402	0.315	0.339

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.28746. STA AV based on 10 yr record period.

TREYNOR, IOWA WATERSHED 3

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri River Basin. Lat. 41 deg. 12 min. 36 sec. N.; Long. 95 deg. 38 min. 05 sec. W.

AREA: 107.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)										TREYNOR, IOWA WATERSHED 3							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual			
1973	P	1.36	0.81	5.45	3.12	5.51	1.49	6.15	1.60	8.75	2.98	1.37	1.94	40.53			
	Q	1.084	1.290	1.597	1.662	2.052	1.400	1.415	1.012	0.816	1.201	1.089	1.029	15.644			
STA AV	P	0.58	0.59	1.27	3.29	4.93	5.60	3.79	2.89	4.75	3.14	1.35	0.98	33.17			
	Q	0.332	0.579	0.594	0.430	0.622	0.863	0.513	0.349	0.343	0.418	0.379	0.388	5.811			
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																	
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval				1 Day		2 Days		8 Days	
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.
1973		7- 4	0.116	7- 3	0.077	7- 3	0.093	2-20	0.131	9-25	0.150	9-25	0.166	5- 7	0.236	5- 7	0.664
MAXIMUMS FOR PERIOD OF RECORD																	
		6-20	2.010	6-20	1.005	6-20	1.287	6-20	1.336	6-20	1.350	6-20	1.371	2-27	1.408	6-14	1.741
		1967		1967		1967		1967		1967		1967		1965		1967	

NOTES: Watershed conditions: 86% corn, conservation tillage; 14% grassed waterway, roads and farmstead. Precipitation: Arithmetic average of rain gages 113 and 114 before April 1 and after November 1; Thiessen average of gages 112, 113 and 114 for remainder of year. Precipitation records began January 1, 1964. Runoff records began January 2, 1964, January 1, 1964 runoff estimated and included in average. For topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1964, USDA Misc. Pub. 1194, p. 71.3-4. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1973 DAILY AIR TEMPERATURE (degrees F)														TREYNOR, IOWA WATERSHED 3											
Day	Jan max min	Feb max min	Mar max min	Apr max min	May max min	Jun max min	Jul max min	Aug max min	Sep max min	Oct max min	Nov max min	Dec max min													
1	26 8	34 31	48 38	42 38	60 41	84 57	94 70	77 56	81 70	69 52	50 34	46 37													
2	40 13	30 22	50 36	50 40	54 39	79 63	88 74	83 53	82 68	77 49	45 35	64 32													
3	31 7	43 23	44 34	52 37	64 37	82 58	90 68	88 62	87 65	69 54	40 32	41 28													
4	8 -3	42 31	40 33	53 35	72 39	71 59	88 68	85 59	88 62	64 43	35 22	29 22													
5	12 -9	38 34	45 40	69 33	70 52	78 58	84 67	82 60	79 58	69 41	40 17	22 16													
6	5 -11	34 24	53 44	73 43	60 50	84 53	89 66	86 65	80 54	60 50	40 26	22 6													
7	8 -1	24 10	61 38	52 40	78 51	93 59	92 69	88 68	74 53	66 57	46 32	25 3													
8	6 -6	23 6	51 33	38 29	78 50	94 68	92 74	86 66	70 62	84 64	30 24	33 22													
9	6 -12	34 6	40 36	29 23	78 53	96 65	92 68	86 65	70 63	82 68	31 17	31 17													
10	18 -4	28 6	42 38	41 20	70 50	92 69	88 67	88 62	80 60	74 54	44 18	24 14													
11	18 3	36 21	44 36	64 30	70 50	95 70	90 68	81 64	76 58	68 44	50 35	37 19													
12	29 4	36 32	64 38	51 30	62 42	80 69	92 70	84 66	64 54	63 38	61 39	37 22													
13	35 12	35 20	60 48	57 27	67 38	86 61	90 72	86 66	62 56	72 44	69 48	31 19													
14	48 30	20 6	58 43	59 42	61 37	86 68	88 62	85 62	77 50	83 46	60 44	26 14													
15	41 28	16 0	43 36	62 33	73 42	96 70	80 56	82 63	64 45	72 50	45 36	15 6													
16	50 34	12 -6	36 29	51 33	72 49	92 74	84 56	87 64	52 43	54 38	48 33	16 0													
17	52 42	28 6	45 25	66 35	73 42	90 58	84 62	88 62	56 42	70 41	60 40	24 16													
18	48 34	36 27	52 26	73 43	88 52	78 62	90 68	88 68	64 38	74 42	38 36	24 17													
19	36 32	38 30	48 36	68 54	81 58	77 55	78 70	96 70	73 48	74 49	50 38	17 2													
20	38 32	50 28	54 32	75 47	86 52	79 54	71 62	86 70	73 49	72 40	54 35	12 -4													
21	32 28	33 25	54 28	68 44	94 62	81 56	66 63	88 66	88 60	77 46	44 26	20 5													
22	33 18	47 30	49 35	66 37	76 60	86 56	70 62	88 64	81 56	74 53	46 24	30 13													
23	34 12	56 31	58 41	77 44	84 52	96 61	84 63	80 68	68 51	80 48	45 26	26 15													
24	45 28	46 33	48 44	75 48	70 54	94 68	86 63	76 66	72 62	74 55	42 30	33 25													
25	47 29	34 30	48 41	54 46	76 48	93 74	82 66	90 68	76 60	68 42	36 27	32 16													
26	50 30	33 30	61 40	58 40	66 55	88 68	82 62	93 68	65 60	62 44	49 40	26 14													
27	38 22	38 32	63 38	55 33	58 56	84 62	84 64	92 68	62 56	56 36	44 27	27 17													
28	22 13	59 32	54 44	72 37	74 54	86 58	86 62	90 68	68 60	44 34	45 25	30 18													
29	29 10		44 36	80 51	62 55	84 60	88 68	88 67	66 50	56 28	56 28	22 9													
30	47 18		54 34	72 52	74 50	83 60	80 62	88 66	68 54	57 36	48 28	16 -10													
31	39 26		50 30		79 52		79 59	82 68		58 37		0 -11													
AV.	31 15	35 21	50 36	60 38	72 49	86 62	85 66	86 65	72 56	68 46	46 31	27 14													
MEAN	23.2	28.3	43.5	49.1	60.6	74.4	75.2	75.5	63.9	57.2	38.6	20.3													
STA AV	28 11	34 16	47 25	61 38	73 51	82 60	86 65	82 61	74 52	64 42	46 28	32 18													

NOTES: Temperature data taken from hygrothermograph charts. The recording period is from 0001 to 2400 for the date shown. STA AV based on 9 yr record period.

1973 DAILY PRECIPITATION (inches) TREYNOR, IOWA WATERSHED 3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.0	0.51	0.0	0.0	0.29	0.0	0.0	0.0	0.17	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0	0.0
3	0.55	0.0	0.16	0.0	0.0	0.06	2.50	0.0	0.04	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.31	0.19	0.0	0.0	0.0	0.0	0.57
5	0.0	0.0	0.06	0.0	0.35	0.10	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.03	0.0	0.32	0.0	0.0	0.0	0.0	0.15	0.0	0.0
7	0.0	0.08	0.0	0.0	1.77	0.0	0.0	0.39	0.12	0.0	0.0	0.0
8	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.02	0.51	0.0	0.10	0.0
9	0.0	0.0	0.35	0.26	0.10	0.0	0.36	0.02	0.07	0.0	0.0	0.0
10	0.0	0.0	0.97	0.0	0.21	0.0	0.0	0.46	0.0	2.23	0.0	0.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.45	0.0	0.60	0.0	0.0
12	0.0	0.04	0.0	0.0	0.0	0.0	0.0	0.0	0.07	0.0	0.0	0.0
13	0.0	0.18	0.58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.01	0.0	0.0	0.47	0.08	0.0	0.0	0.0	0.02	0.11
15	0.0	0.0	0.0	0.91	0.0	0.0	0.0	0.0	0.48	0.0	0.0	0.0
16	0.0	0.0	0.0	0.16	0.0	0.0	0.0	0.05	0.44	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.31	0.06	0.0	0.0	0.0	0.0	0.22
19	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.11	0.0	0.0	0.0	0.0	0.0	1.37	0.0	0.0	0.0	0.90	0.0
21	0.32	0.0	0.0	0.0	0.04	0.0	0.32	0.0	0.0	0.0	0.0	0.0
22	0.08	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.32	0.0
24	0.0	0.0	0.68	0.27	0.0	0.0	0.29	0.0	0.95	0.0	0.0	0.86
25	0.0	0.0	0.20	0.19	0.0	0.0	0.0	0.0	2.32	0.0	0.0	0.14
26	0.05	0.0	0.0	0.03	0.89	0.0	0.0	0.0	2.62	0.0	0.03	0.0
27	0.25	0.0	0.0	0.0	1.52	0.0	0.0	0.0	0.06	0.0	0.0	0.0
28	0.0	0.0	0.08	0.0	0.02	0.0	0.0	0.0	0.83	0.0	0.0	0.04
29	0.0	0.0	0.07	0.09	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
30	0.0	0.0	0.0	1.09	0.0	0.24	0.0	0.0	0.07	0.0	0.0	0.0
31	0.0	0.0	1.39	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0
TOTAL	1.36	0.81	5.45	3.12	5.51	1.49	6.15	1.60	8.75	2.98	1.37	1.94
STA AV	0.58	0.59	1.27	3.29	4.93	5.60	3.79	2.89	4.75	3.14	1.35	0.98

NOTES: Daily precipitation amounts are arithmetic average values from stations 113 and 114 before April 1 and after November 1; Thiessen weighted average values from rain gages 112, 113 and 114 for remainder of year. STA AV based on 10 yr record period.

1973 MEAN DAILY DISCHARGE (cfs) TREYNOR, IOWA WATERSHED 3												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.147	0.294	0.163	0.368	0.302	0.263	0.179	0.179	0.109	0.147	0.171	0.155
2	0.147	0.179	0.163	0.330	0.261	0.259	0.198	0.179	0.103	0.143	0.163	0.155
3	0.147	0.163	0.165	0.307	0.247	0.245	0.264	0.179	0.094	0.139	0.163	0.155
4	0.147	0.256	0.181	0.285	0.236	0.268	0.612	0.179	0.094	0.139	0.163	0.155
5	0.143	0.205	0.179	0.263	0.256	0.249	0.214	0.179	0.094	0.143	0.163	0.151
6	0.135	0.180	0.179	0.247	0.262	0.244	0.205	0.179	0.094	0.147	0.163	0.147
7	0.132	0.171	0.171	0.233	0.654	0.235	0.196	0.184	0.095	0.143	0.163	0.147
8	0.132	0.159	0.163	0.218	0.431	0.230	0.196	0.179	0.101	0.135	0.163	0.147
9	0.128	0.151	0.191	0.214	0.385	0.225	0.190	0.179	0.095	0.132	0.163	0.147
10	0.124	0.147	0.277	0.259	0.365	0.225	0.183	0.169	0.094	0.194	0.163	0.147
11	0.124	0.147	0.269	0.256	0.324	0.210	0.179	0.174	0.090	0.214	0.163	0.147
12	0.124	0.147	0.242	0.228	0.305	0.210	0.179	0.163	0.092	0.196	0.163	0.147
13	0.124	0.164	0.298	0.218	0.286	0.202	0.179	0.155	0.094	0.196	0.163	0.147
14	0.130	0.148	0.264	0.214	0.279	0.214	0.179	0.147	0.089	0.196	0.163	0.147
15	0.137	0.147	0.237	0.318	0.276	0.205	0.179	0.147	0.095	0.192	0.163	0.147
16	0.345	0.147	0.218	0.296	0.261	0.196	0.179	0.147	0.095	0.188	0.163	0.147
17	0.371	0.147	0.215	0.264	0.258	0.196	0.179	0.147	0.091	0.188	0.163	0.0
18	0.165	0.147	0.214	0.252	0.253	0.196	0.179	0.147	0.088	0.188	0.163	0.294
19	0.147	0.181	0.205	0.233	0.242	0.196	0.187	0.141	0.088	0.188	0.163	0.147
20	0.147	0.731	0.187	0.214	0.235	0.196	0.221	0.127	0.085	0.188	0.176	0.143
21	0.147	0.180	0.179	0.214	0.243	0.187	0.212	0.126	0.083	0.188	0.163	0.139
22	0.139	0.399	0.179	0.214	0.233	0.179	0.196	0.125	0.083	0.188	0.163	0.139
23	0.132	0.348	0.234	0.214	0.224	0.179	0.196	0.120	0.083	0.188	0.166	0.139
24	0.132	0.198	0.315	0.229	0.226	0.179	0.200	0.117	0.098	0.183	0.163	0.163
25	0.132	0.171	0.334	0.235	0.220	0.183	0.192	0.112	0.275	0.179	0.163	0.161
26	0.147	0.163	0.263	0.218	0.264	0.184	0.188	0.112	0.574	0.179	0.163	0.155
27	0.250	0.163	0.252	0.214	0.503	0.184	0.183	0.117	0.136	0.179	0.163	0.155
28	0.155	0.163	0.252	0.205	0.334	0.184	0.179	0.112	0.159	0.179	0.159	0.155
29	0.147	0.242	0.196	0.301	0.301	0.184	0.179	0.108	0.147	0.179	0.155	0.155
30	0.147	0.233	0.315	0.286	0.286	0.188	0.179	0.109	0.147	0.179	0.155	0.151
31	0.147	0.510	0.271	0.271	0.271	0.179	0.179	0.110	0.179	0.179	0.179	0.139
MEAN	0.1572	0.2070	0.2315	0.2490	0.2975	0.2098	0.2052	0.1468	0.1222	0.1741	0.1631	0.1492
INCHES	1.084	1.290	1.597	1.662	2.052	1.400	1.415	1.012	0.816	1.201	1.089	1.029
STA AV	0.332	0.579	0.594	0.430	0.622	0.863	0.513	0.349	0.343	0.418	0.379	0.388

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.22245. STA AV based on 10 yr record period.

TREYNOR, IOWA WATERSHED 4

LOCATION: Pottawattamie County, Iowa; approximately 3 miles southwest of Treynor; Silver Creek, West Nishnabotna River, Missouri River Basin. Lat. 41 deg. 12 min. 36 sec. N.; Long. 95 deg. 38 min. 05 sec. W

AREA: 150.00 acres

MONTHLY PRECIPITATION AND RUNOFF (inches)														TREYNOR, IOWA WATERSHED 4											
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual											
1973	P	1.28	0.79	5.36	2.99	5.50	1.43	6.36	1.53	8.74	3.02	1.32	1.98	40.30											
	Q	1.341	1.309	1.450	1.443	1.925	1.127	1.498	0.743	1.257	1.453	0.915	0.897	15.358											
STA AV	P	0.56	0.58	1.26	3.29	4.92	5.70	3.83	2.90	5.01	3.25	1.32	0.95	33.55											
	Q	0.475	0.485	0.650	0.564	0.969	1.098	0.859	0.555	0.641	0.611	0.552	0.545	8.003											
ANNUAL MAXIMUM DISCHARGE (in/hr) AND MAXIMUM VOLUMES OF RUNOFF (inches) FOR SELECTED TIME INTERVALS																									
		Maximum Discharge		1 Hour		2 Hours		Maximum Volume for Selected Time Interval		6 Hours		12 Hours		1 Day		2 Days		8 Days							
		Date	Rate	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.	Date	Vol.						
1973		7- 4	0.192	7- 3	0.084	7- 3	0.113	9-25	0.260	9-25	0.428	9-25	0.542	9-25	0.577	9-25	0.831								
MAXIMUMS FOR PERIOD OF RECORD																									
		6- 7	0.607	6- 7	0.179	5-10	0.289	5- 5	0.563	5- 5	0.676	5- 5	1.036	5- 5	1.316	5- 5	1.743								
		1972		1972		1971		1972		1972		1972		1972		1972									

NOTES: Watershed conditions: 73% contoured corn above level terraces which have a capacity of 2 inches of runoff; 23% contoured corn below the bottom terraces; 3% grassed terrace back slopes; 1% gully. Precipitation from rain gage 113 before April 1 and after November 1; Thiessen average of gages 111, 112 and 113 for remainder of year. Precipitation records began January 1, 1964. Runoff records began February 27, 1964. January 1 to February 27, 1964 runoff estimated and included in average. For daily air temperature, in the vicinity, see table for Watershed 3 (71.003). For revised topographic map of watershed, see Hydrologic Data for Experimental Agricultural Watersheds in the United States, 1972, USDA Misc. Pub. 1412, p.71-4-4. For long-time precipitation records, see National Weather Service records at Omaha, Nebraska.

1973		DAILY PRECIPITATION (inches)						TREYNOR, IOWA WATERSHED 4					
	Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1	0.0	0.51	0.0	0.0	0.31	0.0	0.0	0.0	0.18	0.0	0.0	0.0
	2	0.0	0.0	0.0	0.0	0.0	0.0	1.01	0.0	0.0	0.0	0.0	0.0
	3	0.55	0.0	0.20	0.0	0.0	0.05	2.59	0.0	0.05	0.0	0.0	0.0
	4	0.0	0.0	0.0	0.0	0.0	0.27	0.25	0.0	0.0	0.0	0.0	0.65
	5	0.0	0.0	0.07	0.0	0.34	0.10	0.0	0.0	0.0	0.0	0.0	0.0
	6	0.0	0.0	0.03	0.0	0.35	0.0	0.0	0.0	0.0	0.14	0.0	0.0
	7	0.0	0.08	0.0	0.0	1.76	0.0	0.0	0.35	0.11	0.0	0.0	0.0
	8	0.0	0.0	0.0	0.07	0.0	0.0	0.0	0.02	0.55	0.0	0.10	0.0
	9	0.0	0.0	0.35	0.15	0.11	0.0	0.39	0.02	0.03	0.0	0.0	0.0
	10	0.0	0.0	0.95	0.0	0.19	0.0	0.0	0.42	0.0	2.24	0.0	0.0
	11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46	0.0	0.64	0.0	0.0
	12	0.0	0.03	0.0	0.0	0.0	0.0	0.0	0.0	0.06	0.0	0.0	0.0
	13	0.0	0.17	0.59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	14	0.0	0.0	0.01	0.0	0.0	0.48	0.07	0.0	0.0	0.0	0.02	0.11
	15	0.0	0.0	0.0	0.97	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0
	16	0.0	0.0	0.0	0.20	0.0	0.0	0.0	0.05	0.44	0.0	0.0	0.0
	17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	18	0.0	0.0	0.0	0.0	0.0	0.30	0.05	0.0	0.0	0.0	0.0	0.20
	19	0.0	0.0	0.0	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	20	0.07	0.0	0.0	0.0	0.0	0.0	1.39	0.0	0.0	0.0	0.88	0.0
	21	0.30	0.0	0.0	0.0	0.01	0.0	0.32	0.0	0.0	0.0	0.0	0.0
	22	0.07	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	23	0.0	0.0	0.87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.0
	24	0.0	0.0	0.64	0.23	0.0	0.0	0.28	0.0	0.86	0.0	0.0	0.78
	25	0.0	0.0	0.18	0.18	0.0	0.0	0.0	0.0	2.36	0.0	0.0	0.20
	26	0.05	0.0	0.0	0.03	0.77	0.0	0.0	0.0	2.60	0.0	0.02	0.0
	27	0.24	0.0	0.0	0.0	1.66	0.0	0.0	0.0	0.06	0.0	0.0	0.0
	28	0.0	0.0	0.09	0.0	0.0	0.0	0.0	0.0	0.84	0.0	0.0	0.04
	29	0.0	0.0	0.09	0.09	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.0
	30	0.0	0.0	0.0	1.02	0.0	0.23	0.0	0.0	0.07	0.0	0.0	0.0
	31	0.0	0.0	1.29	0.0	0.0	0.0	0.0	0.21	0.0	0.0	0.0	0.0
TOTAL		1.28	0.79	5.36	2.99	5.50	1.43	6.36	1.53	8.74	3.02	1.32	1.98
STA AV		0.56	0.58	1.26	3.29	4.92	5.70	3.83	2.90	5.01	3.25	1.32	0.95

NOTES: Daily precipitation amounts are Thiessen weighted average values from stations 111, 112 and 113 for period of April 1 through November 1, and from 113 for remainder of year. STA AV based on 10 yr record period.

1973 MEAN DAILY DISCHARGE (cfs) TEEYHON, IOWA WATERSHED 4												
Day	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	0.148	0.930	0.210	0.482	0.400	0.319	0.192	0.163	0.134	0.245	0.215	0.178
2	0.132	0.324	0.165	0.395	0.292	0.313	0.210	0.163	0.132	0.235	0.215	0.178
3	0.128	0.188	0.168	0.355	0.278	0.301	0.633	0.163	0.132	0.227	0.215	0.178
4	0.120	0.442	0.199	0.326	0.274	0.300	2.795	0.163	0.132	0.220	0.215	0.178
5	0.113	0.340	0.185	0.319	0.278	0.282	0.292	0.163	0.132	0.211	0.206	0.178
6	0.110	0.196	0.199	0.313	0.274	0.269	0.262	0.163	0.132	0.215	0.197	0.178
7	0.107	0.139	0.197	0.301	1.832	0.268	0.243	0.172	0.133	0.215	0.197	0.178
8	0.104	0.132	0.180	0.295	0.629	0.260	0.228	0.175	0.144	0.203	0.197	0.178
9	0.102	0.132	0.195	0.273	0.462	0.259	0.234	0.163	0.135	0.197	0.197	0.178
10	0.097	0.132	0.452	0.284	0.438	0.253	0.224	0.165	0.132	0.712	0.197	0.178
11	0.094	0.132	0.349	0.331	0.395	0.243	0.215	0.178	0.129	0.805	0.197	0.178
12	0.095	0.132	0.284	0.284	0.375	0.233	0.215	0.163	0.132	0.449	0.197	0.178
13	0.100	0.178	0.401	0.268	0.358	0.233	0.215	0.163	0.132	0.387	0.197	0.178
14	0.102	0.137	0.301	0.258	0.342	0.240	0.206	0.155	0.129	0.356	0.197	0.178
15	0.187	0.132	0.274	0.447	0.336	0.228	0.197	0.147	0.138	0.336	0.197	0.174
16	0.979	0.124	0.263	0.372	0.324	0.220	0.197	0.147	0.140	0.324	0.197	0.171
17	2.121	0.116	0.247	0.328	0.313	0.220	0.197	0.147	0.133	0.312	0.187	0.167
18	0.504	0.116	0.237	0.307	0.301	0.230	0.197	0.147	0.125	0.302	0.178	0.163
19	0.164	0.216	0.233	0.295	0.289	0.211	0.197	0.145	0.121	0.285	0.178	0.163
20	0.138	1.010	0.224	0.267	0.279	0.211	0.220	0.147	0.121	0.274	0.201	0.163
21	0.132	0.290	0.215	0.253	0.274	0.211	0.208	0.147	0.121	0.269	0.183	0.163
22	0.124	0.739	0.206	0.253	0.274	0.211	0.197	0.143	0.120	0.258	0.178	0.163
23	0.113	0.830	0.247	0.253	0.263	0.206	0.197	0.139	0.116	0.253	0.182	0.163
24	0.111	0.375	0.403	0.257	0.253	0.202	0.200	0.135	0.140	0.243	0.178	0.217
25	0.121	0.188	0.463	0.253	0.253	0.198	0.197	0.132	0.629	0.233	0.178	0.242
26	0.418	0.155	0.339	0.243	0.265	0.203	0.197	0.132	2.953	0.233	0.178	0.210
27	1.204	0.151	0.307	0.233	0.660	0.193	0.187	0.132	0.258	0.233	0.178	0.206
28	0.196	0.275	0.284	0.233	0.405	0.193	0.178	0.132	0.397	0.233	0.178	0.201
29	0.145		0.274	0.228	0.355	0.192	0.178	0.132	0.288	0.233	0.178	0.197
30	0.124		0.263	0.384	0.336	0.199	0.170	0.132	0.262	0.233	0.178	0.197
31	0.116		1.172		0.324		0.163	0.132		0.224		0.197
MEAN	0.2726	0.2947	0.2948	0.3031	0.3914	0.2368	0.3046	0.1510	0.2641	0.2954	0.1922	0.1823
INCHES	1.341	1.309	1.450	1.443	1.925	1.127	1.498	0.743	1.257	1.453	0.915	0.897
STA AV	0.475	0.485	0.650	0.564	0.969	1.098	0.859	0.555	0.641	0.611	0.552	0.545

NOTES: To convert mean daily discharge in CFS to IN/DAY, multiply by 0.15868. STA AV based on 10 yr record period.

